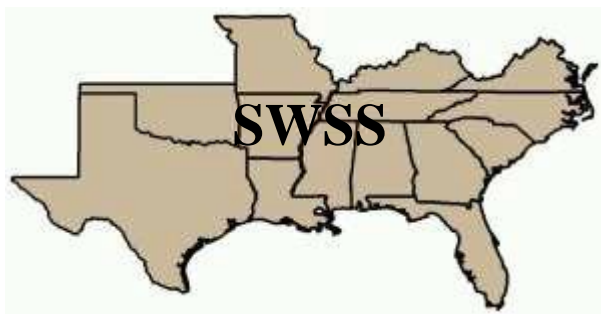


Program

75th

Annual Meeting

Southern Weed Science Society



Theme:

“Continued Resilience”

January 23-27, 2022

**AT&T Hotel and Conference Center
Austin, TX**

PLEASE SUBMIT ABTRACTS TO WEBSITE PRIOR TO MEETING

PLEASE SUBMIT POWERPOINT FILES TO WEBSITE

Local Arrangements Committee

Luke Etheredge	Chair
Ben McKnight	Registration
Luke Etheredge	Audio Visual
Ben McKnight	Equipment Storage & Security
Kelley Mazur	Graduate Students & Room Reservations
Kelley Mazur	Information Booth & Message Coordinator
Kelley Mazur	Meal Functions
Luke Etheredge	Room Setup
Greg Steele	Signs and Exhibits
Greg Steele	Poster Setup

Special Events

Endowment Function/Graduate Student Mixer & Social @ Top Golf

Sunday, January 23, 2022
6:00 p.m. – 9:00 p.m.

SWSS General Session – Zlotnik Ballroom 1/2/3

Monday, January 24, 2022
1:00 p.m. – 3:00 pm

Graduate Student Luncheon – Zlotnik Ballroom 1/2/3

Tuesday, January 25, 2022
12:30 p.m. – 2:00 p.m.

Women’s Networking Event – Classroom 115

Tuesday, January 25, 2022
3:30 p.m. – 5:30 p.m.

Graduate Student Quiz Bowl – Zlotnik Ballroom 1/2/3

Tuesday, January 25, 2022
5:30 p.m. – 6:30 p.m.

Christian Fellowship Breakfast – Classroom 115

Wednesday, January 26, 2022
6:30 a.m. – 7:45 a.m.

SWSS Awards Luncheon – Zlotnik Ballroom 1/2/3

Wednesday, January 26, 2022
12:00 p.m. – 2:00 p.m.

Graduate Student Awards Reception and Mixer – Zlotnik Ballroom 1/2/3

Wednesday, January 26, 2022
5:00 p.m. – 8:00 p.m.

Future Meetings

Renaissance Hotel
Baton Rouge, LA – January 23 – 26, 2023

WSSA/SWSS Joint Meeting
Hyatt Regency
San Antonio, TX – January 22 – 25, 2024

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Southern Weed Science Society

Committees and Chairpersons

2022 Program	Darrin Dodds
2023 Program	Eric Castner
Awards	Eric Webster
Business Manager/Sales Coordination	Kelley Mazur
Computer Application	Jim Brosnan
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Education Units	Jacob Reed
Endowment Foundation	Gary Schwarzlose
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Nominating	Eric Webster
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Site Selection	Luke Etheredge
Southern Weed Contest	Drew Ellis
Student Program	Tommy Butts
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Weed Resistance and Technology Stewardship	Connor Ferguson

Program Section Chairs

Agronomic Crops	Scott Nolte
Weed Management in Turf	John Brewer
Weed Management in Pastures & Rangeland	David Russell
Weed Management in Horticultural Crops	Peter Dittmar
Forest Vegetation Management	David Russell
Vegetation Management in Utilities, Railroads, & Highway Rights-of-Way; Industrial Sites	David Russell
Physiological and Biological Aspects of Weed Control	Sam Rustom
Educational Aspects of Weed Control	Connor Ferguson
Regulatory Aspects of Weed Control	Ben Sperry
Invasive Species	Ben Sperry
New Technologies	Shane Carver
Soil and Environmental Aspects of Weed Scienc4	Ben Sperry
Posters	Matthew Wiggins
Graduate Student Contest	Tommy Butts

Registration – Meeting Level 1 Foyer

MONDAY, January 24, 2022

8:00 a.m. – 5:00 p.m.

TUESDAY, January 25, 2022

8:00 a.m. – 5:00 p.m.

WEDNESDAY, January 26, 2022

8:00 a.m. – 3:00 p.m.

Displays and Posters

Set-up time for displays and the Poster Session is 10:00 am to noon on Monday, January 24, 2022, in the Zlotnik Ballroom 4/5/6. The poster area will be open from 3:00 pm to 5:00 pm on Monday, 7:00 am to 5:00 pm on Tuesday, and 7:00 am to 3:00 pm on Wednesday.

Authors of even numbered posters will be present to discuss their posters from 7:00 am to 8:00 am on Tuesday.

Authors of odd numbered posters will be present from 7:00 am to 8:00 am on Wednesday.

Contest poster authors do not have to be present for judging.

Displays and Posters must be removed before 3:00 pm on Wednesday, January 26, 2022

SWSS Endowment Silent Auction

Silent Auction will take place in meeting level one foyer and will close on **Wednesday, January 26, 2022, at 1:00 pm**

Auction item pick up will immediately follow and close at approximately 3:00 pm

Location of Events

SWSS Executive Board Meetings	Classroom 115
Local Arrangements	Classroom 102 B/C
Graduate Contest Judge's Breakfast	Classroom 115
Graduate Contest Judge's Work Room	Boardroom 100
General Session	Zlotnik Ballroom 1/2/3
SWSS Business Meeting	Classroom 104
SWSS Quiz Bowl	Zlotnik Ballroom 1/2/3
GSO Luncheon	Zlotnik Ballroom 1/2/3
Christian Fellowship Breakfast	Classroom 115
Women's Networking Mixer	Classroom 115
SWSS Luncheon	Zlotnik Ballroom 1/2/3
SWSS Student Award Reception	Zlotnik Ballroom 1/2/3

PROGRAM OVERVIEW

Schedule of Events and Meetings

SUNDAY, January 23, 2022

6:00 pm – 9:00 pm Endowment Function/Graduate
Student Mixer & Social
Top Golf
Sponsored by: BASF, Bayer,
Syngenta Crop Protection

8:00 am – 5:00 pm Local Arrangements
102 B/C

3:30 pm – 5:30 pm SWSS Executive Board Meeting
Classroom 115

MONDAY, January 24, 2022

7:00 am – 5:00 pm Local Arrangements
102 B/C

8:00 am – 5:00 pm Registration/Presentation Loading
Meeting Level 1 Foyer

8:00 am – 9:00 am Legislative & Regulatory Comm.
Classroom 107

8:00 am – 9:00 am Weed Resistance Resistant and
Technology Stewardship Comm.
Classroom 108

8:00 am – 9:00 am Endowment Foundation Committee
Classroom 115

9:00 am – 10:00 am Site Selection Committee
Classroom 107

9:00 am – 10:00 am Weed Contest Committee
Classroom 108

9:00 am – 10:00 am Finance Committee
Classroom 115

10:00 am – 11:00 am Research Committee
Classroom 108

11:00 am – Noon SWSS Executive Board Meeting
Classroom 115

1:00 pm – 3:00 pm General Session
Zlotnik Ballroom 1/2/3

5:00 pm – 6:00 pm SWSS Business Meeting
Classroom 104

Immediately after
Business Meeting Weed Contest Committee
Classroom 104

TUESDAY, January 25, 2022

6:00 am – 8:00 am	Graduate Student Contest Judges Breakfast <i>Classroom 115</i>
7:00 am – 7:00 pm	Local Arrangements <i>102 B/C</i>
8:00 am – 5:00 pm	Graduate Student Contest Judges Work Room <i>Boardroom 100</i>
8:00 am – 5:00	Registration/Presentation Loading <i>Meeting Level 1 Foyer</i>
12:30 – 2:00 pm	Graduate Student Luncheon <i>Zlotnik Ballroom 1/2/3</i> <i>Sponsored by: BASF, Bayer, Syngenta Crop Protection, Corteva Agriscience</i>
3:30 pm – 5:30 pm	Women’s Networking Event <i>Classroom 115</i> <i>Sponsored by: Corteva Agriscience</i>
5:30 pm – 6:30 pm	Graduate Student Quiz Bowl <i>Zlotnik Ballroom 1/2/3</i> <i>Sponsored by: Bayer, Syngenta Crop Protection</i>

WEDNESDAY, January 26, 2022

6:30 am – 7:45 am	Christian Fellowship Breakfast <i>Classroom 115</i>
8:00 am – 5:00 pm	Registration/Presentation Loading <i>Meeting Level 1 Foyer</i>
7:00 am – 5:00 pm	Local Arrangements <i>102 B/C</i>
Noon – 2:00 pm	SWSS Awards Luncheon <i>Zlotnik Ballroom 1/2/3</i>
5:00 pm – 6:00 pm	SWSS Mixer <i>Zlotnik Ballroom 1/2/3</i>
6:00 pm – 8:00 pm	SWSS Graduate Student Awards Reception <i>Zlotnik Ballroom 1/2/3</i>

THURSDAY, January 27, 2022

7:00 am – 10:00 am	SWSS Executive Board Breakfast & Board Meeting <i>Classroom 115</i>
8:00 am – 9:00 am	Local Arrangements Committee <i>102 B/C</i>

TECHNICAL PROGRAM OVERVIEW

MONDAY, January 24, 2022

10:00 am – Noon	Poster Setup <i>Zlotnik Ballroom 4/5/6</i>
1:00 pm – 3:00 pm	General Session <i>Zlotnik Ballroom 1/2/3</i>
3:30 pm – 5:00 pm	Soil and Environmental Aspects of Weed Science <i>Classroom 105</i>
3:30 pm – 5:00 pm	New Technologies <i>Classroom 106</i>
3:00 pm – 5:00 pm	Posters - Available for Viewing <i>Zlotnik Ballroom 4/5/6</i>

TUESDAY, January 25, 2022

7:00 am – 5:00 pm	Posters Session <i>Zlotnik Ballroom 4/5/6</i> <i>Even # Authors (7:00 – 8:00 am)</i>
7:30 am – 12:30 pm	Student Paper Contest <i>Classroom 103</i>
8:00 am – 11:00 am	Student Paper Contest <i>Classroom 104</i>
7:30 am – 12:30 pm	Student Paper Contest <i>Classroom 105</i>
7:30 am – 12:15 pm	Student Paper Contest <i>Classroom 106</i>

***All paper and poster judges please have completed score sheets to Tommy Butts by 5:00 pm on Tuesday**

2:00 pm – 3:45 pm	Forest Vegetation Management <i>Classroom 105</i>
2:00 pm – 3:00 pm	Weed Management in Horticultural Crops <i>Classroom 106</i>
4:15 pm – 4:45 pm	Weed Management in Pastures & Rangeland <i>Classroom 105</i>
4:15 pm – 4:45 pm	Educational Aspects of Weed Control <i>Classroom 106</i>

WEDNESDAY, January 26, 2022

7:00 am – 3:00 pm	Posters Session <i>Zlotnik Ballroom 4/5/6</i> <i>Odd # Authors (7:00 – 8:00 am)</i> Posters removed before 3:00 p.m.
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WEDNESDAY, January 26, 2022

8:00 am – 11:45 am	Weed Management in Turf <i>Classroom 105</i>
8:00 am – 12:00 pm	Weed Management in Agronomic Crops <i>Classroom 106</i>
10:15 am – 10:45 pm	Regulatory Aspects of Weed Control <i>Classroom 104</i>
11:00 am – 11:30 am	Invasive Species <i>Classroom 104</i>
11:45 pm. – 12:00 pm	Physiological and Biological Aspects of Weed Control <i>Classroom 104</i>
2:00 pm – 5:00 pm	Weed Management in Agronomic Crops <i>Classroom 105</i>
2:00 pm – 5:00 pm	Weed Management in Agronomic Crops <i>Classroom 106</i>

THURSDAY, January 27, 2022

7:00 am – 10:00 am	SWSS Executive Board Breakfast & Meeting <i>Classroom 115</i>
8:00 am – 10:00 am	Local Arrangements <i>102 B/C</i>

Notes:

PROGRAM

Poster Section

LOCATION: Zlotnik Ballroom
4/5/6
CHAIR & MODERATOR: Matthew S. Wiggins
FMC
Friendship, TN

***PRESENTER † STUDENT CONTEST**

†Effects of Chaff Lining on *Amaranthus* Seed Viability. KM Patterson*¹, G LaBiche¹, NJ Arneson², KL Gage³, V Kumar⁴, T Legleiter⁵, E Miller³, LM Lazaro¹; ¹LSU Ag Center, Baton Rouge, LA, ²University of Wisconsin-Madison, Madison, WI, ³Southern Illinois University Carbondale, Carbondale, IL, ⁴Kansas State University, Hays, KS, ⁵University of Kentucky, Princeton, KY (1)

†Soybean Harvest Index and its Impacts on Harvest Weed Seed Control. BM Hampton*¹, MP Spoth², ML Flessner², LM Lazaro¹; ¹LSU Ag Center, Baton Rouge, LA, ²Virginia Tech, Blacksburg, VA (2)

†Effects of Spray Volume and Nozzle on Cotton Response to Herbicide Tank Mixtures. JC Forehand*¹, JH de Sanctis¹, CW Cahoon¹, ZR Taylor²; ¹North Carolina State University, Raleigh, NC, ²North Carolina State University, Sanford, NC (3)

†Cotton Response to Multiple Sublethal Exposures of 2,4-D. AC Blythe*¹, CW Cahoon², L Steckel³, GD Collins⁴, W Everman², ZR Taylor⁵, JD Joyner⁶; ¹NC State University, Raleigh, NC, ²North Carolina State University, Raleigh, NC, ³University of Tennessee, Jackson, TN, ⁴North Carolina State University, Rocky Mount, NC, ⁵North Carolina State University, Sanford, NC, ⁶NC State University, Mount Olive, NC (4)

†Effects of Spray Droplet Size on Pronamide Control of *Poa annua*. MJ Igenes*; Mississippi State University, Starkville, MS (5)

†**Evaluation of Herbicide Resistance in Italian Ryegrass in Kentucky.** AL Herman*, T Legleiter; University of Kentucky, Princeton, KY (6)

†**Integrating Isoxaflutole into Cotton Weed Management.** JD Joyner*¹, CW Cahoon², ZR Taylor³, W Everman², GD Collins⁴, AC Blythe⁵; ¹NC State University, Mount Olive, NC, ²North Carolina State University, Raleigh, NC, ³North Carolina State University, Sanford, NC, ⁴North Carolina State University, Rocky Mount, NC, ⁵NC State University, Raleigh, NC (7)

†**Pendimethalin for Late Season Residual Control of Texas Millet (*Urochloa texana*) in Corn.** BA Dean*¹, CW Cahoon¹, EP Prostko², JH de Sanctis¹, ZR Taylor³; ¹North Carolina State University, Raleigh, NC, ²University of Georgia, Tifton, GA, ³North Carolina State University, Sanford, NC (8)

†**Does a Fenclorim Seed Treatment Safen Rice to a Delayed Preemergence Application of Microencapsulated Acetochlor on a Clay Soil?** SC Noe*¹, JK Norsworthy², TH Avent², TC Smith², MM Houston², TR Butts³; ¹University of Arkansas, Fayetteville, KY, ²University of Arkansas, Fayetteville, AR, ³University of Arkansas System Division of Agriculture, Lonoke, AR (9)

†**Cereal Rye Residue Effects on the Germination of Troublesome Southeastern Weeds.** A Kumari*¹, S Li¹, AJ Price²; ¹Auburn University, Auburn, AL, ²USDA-ARS-NSDL, Auburn, AL (10)

†**Impact of Drill Spacing and Nozzle Selection on Spray Coverage and Weed Control in Rice.** NH Reed*¹, TR Butts², JK Norsworthy¹, J Hardke³, T Barber², JA Bond⁴, A Poncet¹, BM Davis⁵, M Sumner⁵; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR, ³University of Arkansas, Stuttgart, AR, ⁴Mississippi State University, Stoneville, MS, ⁵University of Arkansas, Lonoke, AR (11)

†**Wildflower Emergence Following Application of Pre-emergent Herbicides.** TH Duncan*, KL Broster, JD Byrd, Jr.; Mississippi State University, Mississippi State, MS (12)

†**Does Coating Urea with Florpyrauxifen-Benzyl Reduce Risk for Damage to Adjacent Soybean?** B Cotter*¹, JK Norsworthy¹, MC Castner¹, LB Piveta¹, TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (13)

†**Effect of Sub-Lethal Rates of Glyphosate on Provisia Rice Tolerance to Quizalofop.** N Godara*¹, JK Norsworthy¹, LB Piveta¹, B Cotter¹, TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (14)

†**HPPD-Tolerant Cotton Response and Control of *Amaranthus palmeri* in Isoxaflutole-Based Systems.** ME Smith*¹, PA Dotray², A Hixson³; ¹Texas Tech University, Lubbock, TX, ²Texas Tech University and Texas A&M AgriLife Research and Extension Service, Lubbock, TX, ³BASF Corporation, Lubbock, TX (15)

†**Control of Grassy Weeds Using New Sorghum Herbicide Technologies.** BA Patton*¹, PA Dotray²; ¹Texas Tech University, Lubbock, TX, ²Texas Tech University and Texas A&M AgriLife Research and Extension Service, Lubbock, TX (16)

†**Field Surveys for Assessment of Weed Seedbank Addition Potential and Harvest Weed Seed Control Feasibility in Texas Rice.** I Ceperkovic*¹, Z Xin-Gen², MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Texas A&M University, Beaumont, TX (17)

†**Use of Unmanned Aerial System for Herbicide Spray Applications.** V Kumar*, V Singh, D Srivastava; Virginia Tech, Painter, VA (18)

†**Gambit Applied with Different Formulations of Propanil for Weed Control in Rice.** JA Williams*¹, E Webster², B Greer², DC Walker¹, C Webster¹; ¹LSU AgCenter, Baton Rouge, LA, ²Louisiana State University, Baton Rouge, LA (19)

†**A Deep Learning Approach for Detecting Common Ragweed in Soybean Using Unmanned Aerial System.** D Srivastava*¹, ML Flessner², V Singh¹; ¹Virginia Tech, Painter, VA, ²Virginia Tech, Blacksburg, VA (20)

†**Sensitivity of Different Living Mulch Species to Pre-emergence Herbicides Used in Cotton.** HR Taylor*¹, MV Bagavathiannan¹, D Hathcoat²; ¹Texas A&M University, College Station, TX, ²Texas A&M AgriLife Research, College Station, TX (21)

†**Reducing Stress from Rice Foliar Herbicides with GWN10598.** S Karaikal*, M Machado Noguera, IS Werle, N Roma-Burgos; University of Arkansas, Fayetteville, AR (22)

†**Comparison of Nitrification Inhibition Potential of Johnson Grass Biotypes in Contrasting Soil Types.** E Ghosh*, N Rajan, NK Subramanian, MV Bagavathiannan; Texas A&M University, College Station, TX (23)

†**Interaction of Different Weed Species with Tomato (*Solanum Lycopersicum*) Cultivars.** F Chitra*, KM Jennings, D Monks, F Louws, S Ippolito; North Carolina State University, Raleigh, NC (24)

†**Effect of Activated Charcoal as a Crop Safener for Flumioxazin in Sweetpotato.** CD Blankenship*¹, KM Jennings², D Monks², DL Jordan², SL Meyers³, J Schultheis², D Suchoff²; ¹NC State University, Raleigh, NC, ²North Carolina State University, Raleigh, NC, ³Purdue University, West Lafayette, IN (25)

†**Weed Suppression Potential of Cereal Rye Through Alteration of Soil Nutrient Dynamics.** G Camargo Silva*¹, MV Bagavathiannan²; ¹Texas A&M University, Department of Soil and Crop Sciences, College Station, TX, ²Texas A&M University, College Station, TX (26)

†**Evaluation of Living Mulch Species and Their Effect on Weed Pressure in Cotton.** MJ Barth*, MV Bagavathiannan; Texas A&M University, College Station, TX (27)

†**Interference of Palmer Amaranth (*Amaranthus Palmeri*) in Stevia (*Stevia Rebaudiana*).** S Ippolito*¹, KM Jennings², D Monks², S Chaudhari², DL Jordan², LD Moore², CD Blankenship³, KC Sims⁴, F Chitra²; ¹North Carolina State University, Selma, NC, ²North Carolina State University, Raleigh, NC, ³NC State University, Raleigh, NC, ⁴NC State University, Goldsboro, NC (28)

†**Sustainable Weed Control Programs in Peanut.** GA Stephens*, DM Dodds, JS Calhoun, J Krutz; Mississippi State University, Mississippi State, MS (29)

†**Suppression of Weeds Via Cover Crops in Soybean.** SA Chu*¹, G LaBiche², LM Lazaro²; ¹Louisiana State University, Baton Rouge, LA, ²LSU Ag Center, Baton Rouge, LA (30)

†**Effect of Burial Depth on Seedbank Persistence of *Poa annua* L. (Annual Bluegrass) Across Climatic Gradients.** AW Osburn*¹, R Bowling², MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Texas A&M University, Dallas, TX (31)

†**Palmer Amaranth Seed Dormancy in Response to Red and Far-Red Light Exposure.** SE Kezar*, MV Bagavathiannan, S Zhen; Texas A&M University, College Station, TX (32)

†**Dicamba and Group 15 Herbicide Combinations for Palmer Amaranth Control.** EC Russell*, ML Flessner, KW Bamber, WC Greene; Virginia Tech, Blacksburg, VA (33)

†**Effect of Boom Height and Working Pressure on Pattern Distribution of Drift Reduction Nozzles.** AA Tavares*¹, J de Oliveira², RB Oliveira³, GR Kruger⁴, DM Dodds¹; ¹Mississippi State University, Mississippi State, MS, ²University of Nebraska-Lincoln, North Platte, NE, ³Northern Parana State University, Bandeirantes, Brazil, ⁴BASF Corporation, Research Triangle Park, NC (34)

†**Automating Data Annotation and Curation for a Weed Image Repository.** M Kutugata*¹, PJ Ramos-Giraldo², M Cangiano², S Skovsen³, C Reberg-Horton², SB Mirsky⁴, MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²North Carolina State University, Raleigh, NC, ³Aarhus University, Aarhus, Denmark, ⁴USDA ARS, Beltsville, MD (35)

†**Transplant Broccoli and Collard Response to the Residual Activity of Glyphosate Applied Preplant.** HE Wright*¹, TM Randell², JC Vance², A Culpepper²; ¹University of Georgia, Athens, GA, ²University of Georgia, Tifton, GA (36)

†**Is Palmer Amaranth in Georgia Resistant to PPO-inhibiting Herbicides Applied PRE and POST?** TM Randell*¹, LC Hand¹, JC Vance¹, HE Wright², A Culpepper¹; ¹University of Georgia, Tifton, GA, ²University of Georgia, Athens, GA (37)

†**Site-Specific Treatment of Late-Season Weed Escapes in Rice Using an RTK-GPS Guided Unmanned Aerial System.** B Gurjar*¹, BB Sapkota¹, I Ceperkovic¹, U Torres¹, M Kutugata¹, X Zhou¹, DE Martin², MV Bagavathiannan¹; ¹Texas A&M university, College Station, TX, ²United States Department of Agriculture, College Station, TX (38)

†**Field Evaluation of Cotton Chromosome Substitution Lines for Weed-Suppressive Potential.** W Segbefia*¹, GA Fuller¹, J Kwetey², KA Boateng¹, PS Sharma¹, T Tseng¹; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Starkville, MS (39)

†**Dislodgable 2,4-D and Dicamba Residue from Hybrid Bermudagrass Influenced by Herbicide Formulation, Rate, and Post-Application Time.** E Gomiero Polli*¹, MC LeCompte¹, RR Rogers¹, K Ahmed¹, E Reasor², T Gannon¹; ¹North Carolina State University, Raleigh, NC, ²PBI Gordon, Dallas, TX (40)

†**Use of Radio-Labeled Herbicides to Understand Interactions Between Dicamba and Glufosinate.** MC Castner*¹, JK Norsworthy¹, GL Priess¹, P Carvalho-Moore¹, J Hwang¹, TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (41)

†**Effect of Pre- and Post-Emergence Application of Phosphite on Multiple Crop and Weed Species.** S Singh*¹, K Hake², G Morgan², MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Cotton Incorporated, Cary, NC (42)

†**Enhancing Pollinator Forage in Turfgrass with Native Weed Species in the Southeastern United States.** IG de Souza*¹, CJ Wang², EB De Castro¹, GM Henry², DW Held³, JG Hill¹, JD McCurdy¹; ¹Mississippi State University, Mississippi State, MS, ²University of Georgia, Athens, GA, ³Auburn University, Auburn, AL (43)

Identification of Goosegrass (*Eleusine indica*) Populations Resistant to Foramsulfuron and Sulfentrazone. BC Johnson*, J Harris, JS McElroy; Auburn University, Auburn, AL (44)

Effect of Application Timing on Rice Tolerance to Fluridone. CH Arnold*¹, JK Norsworthy¹, MC Castner¹, T Barber², TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (45)

Evaluation of Annual Grass Control of Clethodim and Glyphosate Based Treatments as Affected by Water Conditioners and Auxin Herbicides. JT McCaghren*, S Li, RD Langemeier, L Pereira; Auburn University, Auburn, AL (46)

Cotton Response to High Rates of Preemergence-Applied Acetochlor and Diuron on a Clay Soil. TC Smith*¹, JK Norsworthy¹, MM Houston¹, T Barber²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (47)

Do New Herbicide Technologies for Grain Sorghum Differ in Effectiveness on Johnsongrass Accessions. JA Fleming*¹, JK Norsworthy¹, MV Bagavathiannan², V Kumar³, MR Manuchehri⁴, T Barber⁵, TR Butts⁵; ¹University of Arkansas, Fayetteville, AR, ²Texas A&M University, College Station, TX, ³Kansas State University, Hays, KS, ⁴Oklahoma State University, Stillwater, OK, ⁵University of Arkansas System Division of Agriculture, Lonoke, AR (48)

Comparison of Yellow (*Setaria pumila*) and Knotroot Foxtail (*Setaria parviflora*) Response to Herbicides. MM Joseph*, C Rutland, J Harris, JS McElroy; Auburn University, Auburn, AL (49)

Effect of Planting Depth and a Fenclorim Seed Treatment on Rice Tolerance to Acetochlor Under Cold, Wet Conditions. TH Avent*¹, JK Norsworthy¹, TL Roberts¹, TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (50)

Performance of Sweetpotato Cultivars Under *Cyperus* spp. Interference. IS Werle*¹, M Machado Noguera¹, S Karaikal¹, T Tseng², N Roma-Burgos¹; ¹University of Arkansas, Fayetteville, AR, ²Mississippi State University, Mississippi State, MS (51)

Does Inclusion of Foliar Fertilizers to Glyphosate + Dicamba + S-Metolachlor Tank Mix Increase Cotton Leaf Burn? L Pereira*, S Li, RD Langemeier, JT McCaghren; Auburn University, Auburn, AL (52)

Isolation and Identification of Allelochemicals from Root Exudates of Cotton Chromosome Substitution Lines Known to Suppress Palmer Amaranth. AL Miller*, GA Fuller, Z Yue, T Tseng; Mississippi State University, Mississippi State, MS (53)

Response of Palmer Amaranth Accessions to Selected Herbicides. M Williams*, MW Marshall; Clemson University, Blackville, SC (54)

Peanut Response to Paraquat in the Southwest Growing Region. ZR Treadway*¹, JL Dudak¹, TA Baughman¹, PA Dotray², WJ Grichar³; ¹Oklahoma State University, Ardmore, OK, ²Texas Tech University and Texas A&M AgriLife Research and Extension Service, Lubbock, TX, ³Texas A&M AgriLife Research, Yoakum, TX (55)

Post-Emergence Glufosinate Tank Mix Applications in Liberty-Link Soybeans. JL Dudak*, ZR Treadway, TA Baughman; Oklahoma State University, Ardmore, OK (56)

Preemergence Control of Purple Nutsedge with Pyrimisulfan. E Begitschke*, KA Tucker, CJ Wang, GM Henry; University of Georgia, Athens, GA (57)

Acreage Allocation for Variable Density Planting to Optimize Crop Yield and Weed Suppression. SR Ethridge*¹, W Everman¹, DL Jordan¹, AM Locke², RG Leon¹; ¹North Carolina State University, Raleigh, NC, ²USDA, Raleigh, NC (58)

Addition of Glutathione S-Transferases Inhibitors to Glufosinate as an Alternative Winter Burndown of *Lolium* Ssp. P Carvalho-Moore*, JK Norsworthy, M Zaccaro-Gruener, MC Castner, MM Houston, LB Piveta; University of Arkansas, Fayetteville, AR (59)

Persistence of Dicamba and 2,4-D in Xtend and Enlist Soybean. M Zaccaro-Gruener*¹, JK Norsworthy¹, LB Piveta¹, A Mauromoustakos¹, T Barber²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (60)

Response of Cotton Chromosome Substitution Lines to Sublethal Doses of 2,4-D. JC Argenta*¹, W Matte¹, LM Perez², T Tseng²; ¹Mississippi State University, Starkville, MS, ²Mississippi State University, Mississippi State, MS (61)

Interaction of Glufosinate Formulations and Novel Adjuvants on Glufosinate-Resistant Palmer Amaranth Control. M Machado Noguera*, GH Bessa de Lima, N Roma-Burgos; University of Arkansas, Fayetteville, AR (62)

Effect of Soil Wetting Agents on Soil-Applied Herbicide Sorption and Efficacy. JA Patterson*, JS Calhoun, DM Dodds, J Krutz, D Spencer; Mississippi State University, Mississippi State, MS (63)

New Technologies in Water-Seeded Rice Production. C Webster*¹, B Greer², E Webster², DC Walker¹, JA Williams¹; ¹LSU AgCenter, Baton Rouge, LA, ²Louisiana State University, Baton Rouge, LA (64)

Confirmation of a Five-way Herbicide-resistant Waterhemp (*Amaranthus Tuberculatus*) Population in North Carolina. EA Jones*, RJ Andres, DJ Contreras, CW Cahoon, JC Dunne, KM Jennings, RG Leon, W Everman; North Carolina State University, Raleigh, NC (65)

Fecundity Reductions of Palmer Amaranth Surviving Glufosinate Treatments in Cotton. EA Jones*, DJ Contreras, CW Cahoon, KM Jennings, RG Leon, W Everman; North Carolina State University, Raleigh, NC (66)

Effect of Cover Crop Types, Termination Method and Herbicide Program on Weed Management in Cotton. YR Upadhyaya*¹, P Devkota², MJ Mulvaney³, W Hammond¹, H Bayabil¹; ¹University of Florida, Gainesville, FL, ²University of Florida, Jay, FL, ³Mississippi State University, Mississippi State, MS (67)

Longevity of Residual Palmer Amaranth Control with Preemergence-applied Cotton Herbicides. L Adams*¹, T Barber², JK Norsworthy³, A Ross⁴, RC Doherty⁵;
¹University of Arkansas, Greenwood, MS, ²University of Arkansas System Division of Agriculture, Lonoke, AR, ³University of Arkansas, Fayetteville, AR, ⁴University of Arkansas Cooperative Extension Service, Ward, AR, ⁵University of Arkansas Division of Agriculture Research & Extension, Monticello, AR (68)

Response of Johnsongrass and Nutsedge to Purestand Max and Weedmaster XHL. ZS Howard*¹, J Boyd², BA Sellers³, SA Nolte⁴; ¹Texas A & M University, College Station, TX, ²University of Arkansas, North Little Rock, AR, ³University of Florida, Ona, FL, ⁴Texas A&M AgriLife Extension, College Station, TX (69)

Weed Management Options for Vegetable Plasticulture Production in Southwest Florida. R Tiwari*¹, N Boyd², S Daroub³, R Kanissery¹; ¹University of Florida/Institute of Food and Agricultural Sciences-Southwest Florida Research and Education Center, Immokalee, FL, ²University of Florida/Institute of Food and Agricultural Sciences-Gulf Coast Research and Education Center, Wimauma, FL, ³University of Florida/Institute of Food and Agricultural Sciences-Everglades Research and Education Center, Everglades, FL (70)

Hydration Reservoir Durability After Exposure to Undiluted Herbicide. KL Broster*¹, H Quick¹, DP Russell², JD Byrd, Jr.¹; ¹Mississippi State University, Mississippi State, MS, ²Auburn University, Madison, AL (71)

Allelopathic Sweet Potato Varieties for Palmer Amaranth Growth Reduction. V Varsha*¹, IS Werle², MW Shankle³, SL Meyers⁴, T Tseng¹; ¹Mississippi State University, Mississippi State, MS, ²University of Arkansas, Fayetteville, AR, ³Mississippi State University, Pontotoc, MS, ⁴Purdue University, West Lafayette, IN (72)

Developing a Low-cost, Portable System for Real-time Weed Detection with Unmanned Aerial Vehicles. BB Sapkota*, MV Bagavathiannan; Texas A&M university, College Station, TX (73)

Characterization of Spatial Herbicide Injury Patterns in Cotton Using an Unmanned Aerial System. U Torres*¹, BB Sapkota¹, BM McKnight¹, SA Nolte², G Morgan³, PA Dotray⁴, MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Texas A&M AgriLife Extension, College Station, TX, ³Cotton Incorporated, Cary, NC, ⁴Texas Tech University and Texas A&M AgriLife Research and Extension Service, Lubbock, TX (74)

Effects of Burndown Applications Before Cover Crop Planting on Cover Crop Biomass and Weed Suppression. C Sias*, ML Flessner, KW Bamber, EC Russell, WC Greene, MP Spoth; Virginia Tech, Blacksburg, VA (75)

Weed Management Programs for Peanut in South Texas. JA McGinty*¹, WJ Grichar²; ¹Texas A&M AgriLife Extension Service, Corpus Christi, TX, ²Texas A&M AgriLife Research, Yoakum, TX (76)

Double Crop Soybean Yield Loss from Herbicides in Groups 14 and 15. ML Flessner*, KW Bamber; Virginia Tech, Blacksburg, VA (77)

Is a Target Site Mutation Responsible for Resistance to Glufosinate in Palmer Amaranth (*Amaranthus palmeri*)? F Gonzalez Torralva*¹, JK Norsworthy¹, P Carvalho-Moore¹, LB Piveta¹, GL Priess¹, T Barber², TR Butts², JS McElroy³; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR, ³Auburn University, Auburn, AL (78)

Impact of Weed Management Practices on Palmer Amaranth Emergence and Population in XtendFlex and Enlist Soybean. LB Piveta*¹, JK Norsworthy¹, TC Smith¹, MM Houston¹, T Barber²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (79)

Lessons Learned from Annual Auxin Trainings in North Carolina. ZR Taylor*¹, CW Cahoon², W Everman², DL Jordan², AC York³; ¹North Carolina State University, Sanford, NC, ²North Carolina State University, Raleigh, NC, ³North Carolina State University, Liberty, NC (80)

Will Certain Adjuvants Improve Pendimethalin and S-Metolachlor Activity? WJ Grichar*¹, JA McGinty²; ¹Texas A&M AgriLife Research, Yoakum, TX, ²Texas A&M AgriLife Extension Service, Corpus Christi, TX (81)

Metabolism-Based Resistance of Palmer Amaranth (*Amaranthus palmeri* S. Wats) to S-Metolachlor. J Hwang*¹, JK Norsworthy¹, P Carvalho-Moore¹, T Barber², TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (82)

Palmer Amaranth Control with PRE Herbicides Alone or in Combination with Dicamba. CR White*¹, W Keeling¹, PA Dotray², JM Bell³, K Heflin³; ¹Texas A&M AgriLife Research, Lubbock, TX, ²Texas Tech University and Texas A&M AgriLife Research and Extension Service, Lubbock, TX, ³Texas A&M AgriLife, Amarillo, TX (83)

Impact of Application Timing of Dual Magnum, Outlook, and Warrant on Weed Management and Crop Tolerance in Two-Pass Programs with Enlist One and Liberty. D Miller*, M Mize; LSU AgCenter, St Joseph, LA (84)

Impact of Application Timing of Dual Magnum, Outlook, and Warrant on Weed Management and Crop Tolerance in Two-Pass Programs with Enlist Duo. D Miller*, M Mize; LSU AgCenter, St Joseph, LA (85)

Impact of Dual Magnum, Outlook, and Warrant on Crop Injury and Yield from Reduced Rates of Enlist One in Xtend Soybean. D Miller*, M Mize; LSU AgCenter, St Joseph, LA (86)

Elucidation of the Impact of Soil Nutrient Gradients on Weed Seedling Emergence and Growth. V Kankarla*, M Bagavathiannan; Texas A & M University, College Station, TX (87)

Deep Learning-Based Weed Detection in Alfalfa. J Yu*¹, J Yang², MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Nanjing Forestry University, Nanjing, China (88)

Peanut Response to Reviton™ (Tiafenacil). EP Prostko*, C Abbott; University of Georgia, Tifton, GA (89)

Influence of an Early-season Application of Non-Selective Plus Group 15 Herbicides on 2,4-D Tolerant Cotton Growth and Yield. DO Stephenson*, DB Franks, PD Newton; LSU Ag Center, Alexandria, LA (90)

Transplant Method Influences Herbicide Injury in Broccoli and Collard. A Culpepper*¹, JC Vance¹, TM Randell¹, HE Wright²; ¹University of Georgia, Tifton, GA, ²University of Georgia, Athens, GA (91)

Evaluation of Residual Herbicides for Broad-Spectrum Weed Control in Mississippi Corn. JW Reister*¹, T Bararpour¹, DA Bell²; ¹Mississippi State University, Stoneville, MS, ²Mississippi State University, Leland, MS (92)

Optimum Cover Crop Termination Timing in Corn Weed Control System. A Ross*¹, T Barber², LM Collie³, RC Doherty⁴, ZT Hill⁵; ¹University of Arkansas Cooperative Extension Service, Ward, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR, ³University of Arkansas, Lonoke, AR, ⁴University of Arkansas Division of Agriculture Research & Extension, Monticello, AR, ⁵University of Arkansas Cooperative Extension Service, Monticello, AR (93)

Comparing the Accuracy of Available Weather Resources for Pesticide Applicators Across Multiple States. SA Nolte*¹, ZS Howard², NJ Arneson³, N Arsenijevic³, M Bish⁴, KW Bradley⁴, IB Cuvaca⁵, KL Gage⁶, JT Ikley⁷, WG Johnson⁸, LM Lazaro⁹, S Lancaster¹⁰, T Legleiter¹¹, M Loux¹², E Miller⁶, BG Young¹³, R Werle³, M Zimmer⁸; ¹Texas A&M AgriLife Extension, College Station, TX, ²Texas A & M University, College Station, TX, ³University of Wisconsin-Madison, Madison, WI, ⁴University of Missouri, Columbia, MO, ⁵University of Nebraska-Lincoln, Lincoln, NE, ⁶Southern Illinois University Carbondale, Carbondale, IL, ⁷North Dakota State University, Fargo, ND, ⁸Purdue University, West Lafayette, IN, ⁹LSU Ag Center, Baton Rouge, LA, ¹⁰Kansas State University, Manhattan, KS, ¹¹University of Kentucky, Princeton, KY, ¹²The Ohio State University, Columbus, OH, ¹³Purdue University, Brookston, IN (94)

Growth Stage and Varietal Sensitivity of White Clover to Florpyrauxifen-benzyl-containing Herbicides. WC Greene*, ML Flessner; Virginia Tech, Blacksburg, VA (95)

Evaluation of Corn Herbicide for Johnsongrass Control. DA Bell*¹, T Bararpour², JW Reister²; ¹Mississippi State University, Leland, MS, ²Mississippi State University, Stoneville, MS (96)

Effect of Cotton Herbicide Programs on Weed Species Populations Over Time. FH Oreja*, M Inman, DL Jordan, RG Leon; North Carolina State University, Raleigh, NC (97)

Evaluation of Carve Herbicide for Buttonweed and Kyllinga Control in Bermudagrass. D Westbury*, P McCullough; University of Georgia, Griffin, GA (98)

Response of Peanut Cultivars to Postemergence Herbicides. P Devkota*¹, N Singh¹, BL Tillman²; ¹University of Florida, Jay, FL, ²University of Florida/IFAS NFREC, Marianna, FL (99)

Evaluation of Corn Herbicide for Prickly Sida Control. JW Reister*, T Bararpour; Mississippi State University, Stoneville, MS (100)

Kyber Clean: An Effective Solution for Managing Resistant Weeds in Enlist Soybean. KA Backscheider*¹, J Armstrong², DM Simpson², D Johnson³, K Johnson⁴, K Rosenbaum⁵, F Meeks⁶; ¹Corteva Agriscience, Franklin, IN, ²Corteva Agriscience, Indianapolis, IN, ³Corteva Agriscience, Eagan, MN, ⁴Corteva Agriscience, Lafayette, IN, ⁵Corteva Agriscience, Coffee, MO, ⁶Corteva Agriscience, Johnston, IA (101)

Evaluation of Preemergence Herbicide Options for Fiber Hemp. D Hathcoat*¹, JM McVane², MV Bagavathiannan²; ¹Texas A&M AgriLife Research, College Station, TX, ²Texas A&M University, College Station, TX (102)

Nicosulfuron Resistance in a Weedy Sunflower (*Helianthus annuus* L.) Population from Southeast Texas. NK Subramanian*, MV Bagavathiannan; Texas A&M University, College Station, TX (103)

Multi-State Emergence Modeling for Foxtail (*Setaria* Spp.) in Mixed-Grass Pastures. NT Basinger*¹, T Reinhardt Piskackova², DP Russell³, RG Leon⁴, ML Flessner⁵, WC Greene⁵, FH Oreja⁴; ¹University of Georgia, Athens, GA, ²Czech University of Life Sciences Prague, Prague 6 - Suchdol, Czechia (Czech Republic), ³Auburn University, Madison, AL, ⁴North Carolina State University, Raleigh, NC, ⁵Virginia Tech, Blacksburg, VA (104)

Dicamba Residues in Leaves, Fruits, and Roots of Tomato Plants Treated with Low Rates of Dicamba at Different Growth Stages. T Tseng*¹, T Bararpour², Z Yue¹, AL Miller¹; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Stoneville, MS (105)

Response of Creeping Bentgrass and Common Turfgrass Weeds to Plant Growth Regulators. GM Henry*, KA Tucker; University of Georgia, Athens, GA (106)

Tolerance of Iron Cutter Hybrid Bermudagrass to Postemergence Herbicides. GM Henry*, E Begitschke, KA Tucker; University of Georgia, Athens, GA (107)

Prickly Sida Control in Cotton and Soybean. JL Reeves*¹, L Steckel²; ¹The University of Tennessee, Jackson, TN, ²University of Tennessee, Jackson, TN (108)

Control of Ryegrass in Northeast Texas Wheat. CA Jones*¹, AD Braley², DR Drake³; ¹Texas A&M University, Commerce, TX, ²Texas A&M University Commerce, Commerce, TX, ³Texas A&M AgriLife Extension Service, Commerce, TX (109)

Evaluation of Reviton (Tiafenacil) Herbicide in Preplant Burndown Programs. DA Bell*¹, T Bararpour², D Akin³; ¹Mississippi State University, Leland, MS, ²Mississippi State University, Stoneville, MS, ³Helm Agro, Murray, KY (110)

Seedling Oat Response to Postemergence Residual Herbicides. MW Marshall*; Clemson University, Blackville, SC (111)

Exploring the Mechanism of Resistance to Soil-applied Fomesafen in Palmer Amaranth. G Rangani*; University of Arkansas, Fayetteville, AR (112)

Efficacy of Sicklepod Extract for Protection of Soybean from Soybean Loopers (*Chrysodeixis includens* (Walker)). Z Yue*, N Krishnan, T Tseng; Mississippi State University, Mississippi State, MS (113)

2021 Survey Results for the Most Common and Troublesome Weeds in Aquatic and Non-Crop Areas. L Van Wychen*¹, DE Carroll², R Champagne³; ¹Weed Science Society of America, Alexandria, VA, ²The University of Tennessee, Knoxville, TN, ³The University of Maine, Orono, ME (114)

Effect of Low Rate of Dicamba on Tomato at Different Growth Stages. T Bararpour*¹, T Tseng², R Hughes¹; ¹Mississippi State University, Stoneville, MS, ²Mississippi State University, Mississippi State, MS (115)

No Seed Means No Weeds or No Herbicide-Resistant Weeds. T Bararpour*¹, DA Bell², JW Reister¹, JD Peeples¹; ¹Mississippi State University, Stoneville, MS, ²Mississippi State University, Leland, MS (116)

Brake, Valor, and Their Tank-Mixture Combinations with Residual Herbicides for Broad- Spectrum Weed Management Programs in Mississippi Peanut. T Bararpour*; Mississippi State University, Stoneville, MS (117)

Evaluation of Reviton (Tiafenacil) Herbicide in Tank-Mixes for Italian Ryegrass Control. T Bararpour*¹, D Akin²; ¹Mississippi State University, Stoneville, MS, ²Helm Agro, Murray, KY (118)

Cotton and Soybean Response to Low Rates of Dicamba, 2,4-D, and Loyant. T Bararpour*; Mississippi State University, Stoneville, MS (119)

MONDAY AFTERNOON – JANUARY 24

General Session

LOCATION: Zlotnik Ballroom
1/2/3

TIME: 1:00 PM - 3:00 PM
Central Time

CHAIR & MODERATOR: Darrin Dodds
Mississippi State
University
Mississippi State, MS

***SPEAKER**

- 01:00 PM Welcome and Announcements.** DM Dodds*; Mississippi State University, Mississippi State, MS
- 01:05 PM Keynote Address.** J Borlaug*; Norman Borlaug Institute for International Agriculture, College Station, TX
- 01:30 PM Presidential Address.** C Youmans*; BASF Corp., Dyersburg, TN
- 01:45 PM 2021 SWSS Endowment Enrichment Scholarship Presentation.** S Kezar*; Texas A&M University, College Station, TX
- 02:00 PM 2021 SWSS Endowment Enrichment Scholarship Presentation.** H Wright*; University of Georgia, Tifton, GA
- 02:15 PM 2021 SWSS Endowment Enrichment Scholarship Presentation.** D Foster, University of Tennessee, Jackson, TN
- 02:30 PM Washington Policy Update.** L Van Wychen*; Executive Director of Science Policy, Alexandria, VA
- 03:00 PM Adjourn**
- 03:00 PM Break – Zlotnik Ballroom 4/5/6**

MONDAY AFTERNOON – JANUARY 24

**Soil and Environmental Aspects of Weed
Science**

LOCATION: Classroom 105
TIME: 3:30 PM - 5:00 PM Central
Time
CHAIR: Benjamin P. Sperry
US Army Corps of
Engineers
Gainesville, FL
MODERATOR: Benjamin P. Sperry
US Army Corps of
Engineers
Gainesville, FL

***SPEAKER**

- 03:30 PM** **Effect of Tillage, Tarping, and Post-application Irrigation on Methyl Isothiocyanate (MITC) Soil Air Distribution Following Dazomet Application in Sandy Soil.** E Gomiero Polli*¹, MC LeCompte¹, RR Rogers¹, K Ahmed¹, C Silcox², T Gannon¹; ¹North Carolina State University, Raleigh, NC, ²AMVAC, Lincoln University, PA (120)
- 03:45 PM** **Impact of Target Surface and Potassium Acetate on Secondary Movement of Dicamba.** M Zaccaro-Gruener*, JK Norsworthy, MC Castner, TL Roberts; University of Arkansas, Fayetteville, AR (121)
- 04:00 PM** **Palmer Amaranth (*Amaranthus palmeri*) Reproductive Biology Under Variable Thermal and Soil Moisture Stresses.** A Maity*, SE Kezar, MV Bagavathiannan; Texas A&M University, College Station, TX (122)

- 04:15 PM Quantifying Herbicide Movement into the Transplant Hole After Irrigation.** KM Eason*¹, TL Grey², A Culpepper², NL Hurdle³, J de Souza Rodrigues²; ¹The University of Georgia, Tifton, GA, ²University of Georgia, Tifton, GA, ³University of Georgia, Collierville, TN (123)
- 04:30 PM The Response of Palmer Amaranth, Large Crabgrass, and Soybean Grown Alone and in Competition to a Moisture Gradient.** W Everman*¹, MA Granadino¹, DJ Contreras¹, GM Henry²; ¹North Carolina State University, Raleigh, NC, ²University of Georgia, Athens, GA (124)
- 04:45 PM Quantifying Acetochlor Release from Microcapsules with Respect to Time and Temperature.** TL Grey*¹, KM Eason², KS Rucker³, SJ Bowen¹; ¹University of Georgia, Tifton, GA, ²The University of Georgia, Tifton, GA, ³Bayer, Tifton, GA (125)

MONDAY AFTERNOON – JANUARY 24

New Technologies

LOCATION: Classroom 106
TIME: 3:30 PM - 5:00 PM Central
Time
CHAIR: Shane M. Carver
Becks Hybrids
Memphis, TN
MODERATOR: Zachary R. Treadway
Oklahoma State University
Ardmore, OK

***SPEAKER**

- 03:30 PM Efficacy of Plant Based Sicklepod Deer Repellent in Soybean Production System.** Z Yue*¹, MW Shankle², PS Sharma¹, AL Miller¹, T Tseng¹; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Pontotoc, MS (126)
- 03:45 PM Plant Sterols: Potential Pre-emergent Non-Synthetic Herbicides.** K Kumar*¹, LR Griffing²; ¹Griffing Biologics LLC, Hearne, TX, ²Texas A&M University, College Station, TX (127)
- 04:00 PM Efficacy of Directed Energy on Weed Seeds.** LM Lazaro*, G LaBiche; LSU Ag Center, Baton Rouge, LA (128)
- 04:15 PM Reviton and Other New Herbicides from Helm.** D Akin*¹, B Waggoner², J Whitehead³; ¹Helm Agro, Murray, KY, ²Helm Agro, Salem, IL, ³Helm Agro, Oxford, MS (129)

- 04:30 PM Syngenta: New Products, Label Amendments, Stewardship Commitment, and Updates.** ET Parker*¹, M Kitt², SA Strom³, JD Weems⁴; ¹Syngenta Crop Protection, Vero Beach, FL, ²Syngenta Crop Protection, Greensboro, NC, ³Syngenta Crop Protection, Champaign, IL, ⁴Syngenta Crop Protection, Hermiston, WA **(130)**
- 04:45 PM Smart Spray Technology for Row Middle Weed Control in Vegetables.** N Boyd*¹, RK Sandhu², A Schumann³; ¹University of Florida/Institute of Food and Agricultural Sciences-Gulf Coast Research and Education Center, Wimauma, FL, ²University of Florida, Wimauma, FL, ³University of Florida, Lake Alfred, FL **(131)**

TUESDAY MORNING – JANUARY 25

Graduate Student Oral Presentation Contest

LOCATION: Classroom 103
TIME: 7:30 AM - 12:15 PM
Central Time
CHAIR: Thomas R. Butts
University of Arkansas
System Division of
Agriculture
Lonoke, AR
MODERATOR: Spencer Samuelson
Corteva Agriscience
Bryan, TX

***SPEAKER † STUDENT CONTEST**

- 07:30 AM †Is Rice Tolerant to Early-Season Applications of Dicamba?** CH Arnold*¹, JK Norsworthy¹, P Carvalho-Moore¹, LB Piveta¹, T Barber², TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (132)
- 07:45 AM †Hard Water and AMS Effect on Glyphosate-Based Grass Control in the Enlist Weed Control System.** JT McCaghren*, S Li, RD Langemeier, L Pereira; Auburn University, Auburn, AL (133)
- 08:00 AM †Effect of Adjuvant on Herbicidal Weed Control in Soybean (*Glycine max* L.).** DM Dodds, SC Baker*; Mississippi State University, Mississippi State, MS (134)

- 08:15 AM** †**Duration of Weed Control Following Preemergence Herbicide Application in Soybean.** CK Meyer*, DM Dodds, JS Calhoun, Z Ugljic, GA Stephens, JA Patterson; Mississippi State University, Mississippi State, MS (135)
- 08:30 AM** †**Evaluation of Pre-Emergence Johnsongrass Control in Sugarcane Seedlings.** CB Baucum*¹, LM Lazaro², AJ Orgeron²; ¹Louisiana State University, Baton Rouge, LA, ²LSU Ag Center, Baton Rouge, LA (136)
- 08:45 AM** †**Weed Suppression by Cotton Chromosome Substitution Lines at Different Cover Crop Production Systems.** AL Miller*¹, GA Fuller¹, JC Argenta², T Tseng¹; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Starkville, MS (137)
- 09:00 AM** †**Rice Exposure to a Sub-Lethal Concentration of Paraquat During Reproductive Growth Stages.** TD Burrell II*, JA Bond; Mississippi State University, Stoneville, MS (138)
- 09:15 AM** †**Low-Dose Multiple Exposure Effects of Auxin Herbicides on Soybean.** G Oakley*¹, DB Reynolds¹, KL Gage², BG Young³, JK Norsworthy⁴, JA Bond⁵, M Loux⁶, KW Bradley⁷, GR Kruger⁸; ¹Mississippi State University, Mississippi State, MS, ²Southern Illinois University Carbondale, Carbondale, IL, ³Purdue University, Brookston, IN, ⁴University of Arkansas, Fayetteville, AR, ⁵Mississippi State University, Stoneville, MS, ⁶The Ohio State University, Columbus, OH, ⁷University of Missouri, Columbia, MO, ⁸BASF Corporation, Research Triangle Park, NC (139)
- 09:30 AM** †**Evaluation of Non-Uniform Populations of Inbred and Hybrid Clearfield Rice Cultivars.** TW Eubank*, JA Bond; Mississippi State University, Stoneville, MS (140)

- 09:45 AM** †**The Influence of Cover Crop Type and Establishment Method on Tall Waterhemp Suppression.** SR Reeves*¹, DB Reynolds¹, JA Bond², B Blackburn¹, BJ Varner¹, G Oakley¹, NT Glenn¹, AL Wilber¹; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Stoneville, MS (141)
- 10:00 AM** **Break – Zlotnik Ballroom 4/5/6**
- 10:15 AM** †**Cotton (*Gossypium hirsutum* L.) Tolerance to Non-labeled Herbicides in Mississippi.** AB Gaudin*¹, Z Ugljic¹, DM Dodds¹, DB Reynolds¹, BK Pieralisi¹, G Morgan², J Krutz¹, D Spencer¹; ¹Mississippi State University, Mississippi State, MS, ²Cotton Incorporated, Cary, NC (142)
- 10:30 AM** †**Sustainable Cotton Production: Optimizing Living Much Vegetation-Free Strip Width in Cotton.** S Shome*, N Gaur, M Levi, NT Basinger; University of Georgia, Athens, GA (143)
- 10:45 AM** †**The Effect of Volatility Reducing Agents (VRA) on Dicamba Volatility.** NT Glenn*¹, KW Bradley², JK Norsworthy³, DB Reynolds¹, BG Young⁴; ¹Mississippi State University, Mississippi State, MS, ²University of Missouri, Columbia, MO, ³University of Arkansas, Fayetteville, AR, ⁴Purdue University, Brookston, IN (144)
- 11:00 AM** †**Long-Term Management Strategies for Palmer Amaranth Control in Cotton.** TC Smith*¹, JK Norsworthy¹, T Barber², JA Fleming¹, MM Houston¹; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (145)
- 11:15 AM** †**Soybean Response to Multiple Dicamba Drift Events at Varying Time Intervals.** BN Hiatt*¹, LM Lazaro², DO Stephenson³, D Miller⁴; ¹Louisiana State University, Baton Rouge, LA, ²LSU Ag Center, Baton Rouge, LA, ³LSU Ag Center, Alexandria, LA, ⁴LSU AgCenter, St Joseph, LA (146)

- 11:30 AM** †**Classification of 2,4-D Salts and Formulation Components Using Machine Learning Models.** B Blackburn*¹, DB Reynolds¹, A Brown¹, D Sparks¹, M Caprio², DM Simpson³, BJ Varner¹, G Oakley¹, SR Reeves¹, NT Glenn¹; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Starkville, MS, ³Corteva Agriscience, Indianapolis, IN **(147)**
- 11:45 AM** †**Evaluation of Control of Failed Stands of Corn (*Zea mays* L) and Soybean (*Glycine max* (L.) Merr.).** GA Mangialardi*¹, JA Bond¹, D Gholson¹, T Allen², J McCoy³; ¹Mississippi State University, Stoneville, MS, ²Mississippi State University, Leland, MS, ³Mississippi State University, Verona, MS **(148)**
- 12:00 PM** †**Sensitivity of Fluazifop-Resistant Grain Sorghum to ACCase-Inhibiting Herbicides.** JA Fleming*¹, JK Norsworthy¹, MV Bagavathiannan², N Godara¹, TC Smith¹, T Barber³; ¹University of Arkansas, Fayetteville, AR, ²Texas A&M University, College Station, TX, ³University of Arkansas System Division of Agriculture, Lonoke, AR **(149)**

TUESDAY MORNING – JANUARY 25

Graduate Student Oral Presentation Contest

LOCATION: Classroom 104
TIME: 8:00 AM - 11:00 AM
Central Time
CHAIR: Thomas R. Butts
University of Arkansas
System Division of
Agriculture
Lonoke, AR
MODERATOR: Lawson Priess
Corteva Agriscience
Fayetteville, AR

***SPEAKER † STUDENT CONTEST**

- 08:00 AM †Melatonin as a Potential Safener Against 2,4-D Injury in Cotton.** JC Argenta*¹, AL Miller², T Tseng²; ¹Mississippi State University, Starkville, MS, ²Mississippi State University, Mississippi State, MS (150)
- 08:20 AM †Initial Insights into the Mechanism of Glufosinate Resistance in Palmer Amaranth.** P Carvalho-Moore*¹, JK Norsworthy¹, J Hwang¹, F Gonzalez Torralva¹, GL Priess¹, T Barber², TR Butts², JS McElroy³; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR, ³Auburn University, Auburn, AL (151)
- 09:20 AM †Investigating Genetic Control of Inter-specific Hybridization Between *Sorghum bicolor* and *S. halepense* Using Recombinant Inbred Lines of Sorghum.** UR Pedireddi*, NK Subramanian, G Hodnett, P Klein, MV Bagavathiannan, W Rooney; Texas A&M University, College Station, TX (154)
- 10:00 AM Break – Zlotnik Ballroom 4/5/6**

- 10:20 AM** †**Growth Analysis of Herbicide-resistant and Susceptible *Amaranthus palmeri* Biotypes.** J de Souza Rodrigues*¹, TL Grey¹, KM Eason²; ¹University of Georgia, Tifton, GA, ²The University of Georgia, Tifton, GA **(156)**
- 10:40 AM** †**Effect of Herbicide Concentration on Atrazine, Pyroxasulfone, and Saflufenacil Dissipation Under Field and Lab Conditions.** RL Landry*¹, L Steckel², TC Mueller³; ¹University of Tennessee Knoxville, Knoxville, TN, ²University of Tennessee, Jackson, TN, ³University of Tennessee, Knoxville, TN **(157)**

TUESDAY MORNING – JANUARY 25

Graduate Student Oral Presentation Contest

LOCATION: Classroom 105
TIME: 7:30 AM - 12:30 PM
Central Time
CHAIR: Thomas R. Butts
University of Arkansas
System Division of
Agriculture
Lonoke, AR
MODERATOR: Matthew Wiggins
FMC Corporation
Friendship, TN

***SPEAKER † STUDENT CONTEST**

- 07:30 AM †A Bioassay to Determine *Poa annua* Responses to Indaziflam.** BD Pritchard*¹, J Brosnan², JJ Vargas³; ¹University of Tennessee Knoxville, Knoxville, TN, ²Univeristy of Tennessee, Knoxville, TN, ³University of Tennessee, Knoxville, TN (158)
- 07:45 AM †Peanut Response to Forestry Herbicides: Imazapyr and Triclopyr.** C Abbott*, EP Prostko; University of Georgia, Tifton, GA (159)
- 08:00 AM †Programmatic Approaches to Control Quinclorac-Resistant Smooth Crabgrass (*Digitaria ishaemum*) in Bermudagrass (*Cynodon Spp.*) Turf.** AD Putri*; Mississippi State University, Mississippi State, MS (160)

- 08:15 AM** †**Distribution of Herbicide-Resistant Italian Ryegrass in Arkansas.** L Adams*¹, T Barber², JK Norsworthy³, TR Butts²; ¹University of Arkansas, Greenwood, MS, ²University of Arkansas System Division of Agriculture, Lonoke, AR, ³University of Arkansas, Fayetteville, AR (161)
- 08:30 AM** †**Herbicide Program Evaluation for Control of Knotroot Foxtail (*Setaria parviflora*) in Bermudagrass (*Cynodon dactylon*) Pastures.** LM Dyer*¹, NT Basinger¹, P McCullough², GM Henry¹; ¹University of Georgia, Athens, GA, ²University of Georgia, Griffin, GA (162)
- 08:45 AM** †**Confirmation of Paraquat-resistant Italian Ryegrass (*Lolium multiflorum*) in North Carolina Row Crops.** JH de Sanctis*¹, CW Cahoon¹, W Everman¹, T Gannon¹, ZR Taylor², JC Forehand¹; ¹North Carolina State University, Raleigh, NC, ²North Carolina State University, Sanford, NC (163)
- 09:00 AM** †**Evaluation of Florpyrauxifen-benzyl & Aminopyralid in Florida Pastures.** CA R. Sales*¹, BA Sellers¹, P Devkota², MO Wallau³; ¹University of Florida, Ona, FL, ²University of Florida, Jay, FL, ³University of Florida, Gainesville, FL (164)
- 09:15 AM** †**Evaluation of Weed Control with Alite 27 in GLIXTP Cotton.** JL Dudak*¹, ZR Treadway¹, TA Baughman¹, T Barber², CW Cahoon³, A Culpepper⁴, MW Marshall⁵, SA Nolte⁶, A Hixson⁷; ¹Oklahoma State University, Ardmore, OK, ²University of Arkansas System Division of Agriculture, Lonoke, AR, ³North Carolina State University, Raleigh, NC, ⁴University of Georgia, Tifton, GA, ⁵Clemson University, Blackville, SC, ⁶Texas A&M AgriLife Extension, College Station, TX, ⁷BASF Corporation, Lubbock, TX (165)

- 09:30 AM** †**Phosphorus Fertilization Influences Critical Period of Weed Control in Sweet Corn on Organic Soils.** AG Rodriguez*, D Odero; University of Florida, Belle Glade, FL (166)
- 09:45 AM** †**Confirmation and Control of Auxin Resistant Palmer Amaranth in Tennessee.** DC Foster*¹, L Steckel¹, PA Dotray²; ¹University of Tennessee, Jackson, TN, ²Texas Tech University and Texas A&M AgriLife Research and Extension Service, Lubbock, TX (167)
- 10:00 AM** **Break – Zlotnik Ballroom 4/5/6**
- 10:15 AM** †**Cover Crops and Selected Cultivars for Weed Management in Organic Sweetpotato Production.** I Schlegel Werle*, M Machado Noguera, S Karaikal, P Carvalho-Moore, J Kouame, N Roma-Burgos; University of Arkansas, Fayetteville, AR (168)
- 10:30 AM** †**Response of Louisiana Weedy Rice Accessions to Benzobicyclon.** B Greer*¹, C Webster², DC Walker², E Webster¹, JA Williams²; ¹Louisiana State University, Baton Rouge, LA, ²LSU AgCenter, Baton Rouge, LA (169)
- 10:45 AM** †**An Investigation into the Impacts of Pre-Emergent Herbicide Program on the Health and Productivity of HLB-Affected Citrus Trees.** N Timilsina*¹, O Batuman², F Alferez², D Kadyampakeni³, R Tiwari¹, R Kanissery¹; ¹University of Florida/Institute of Food and Agricultural Sciences-Southwest Florida Research and Education Center, Immokalee, FL, ²University of Florida, Immokalee, FL, ³University of Florida, Lake Alfred, FL (170)
- 11:00 AM** †**Response of Non-Irrigated Peanut to Multiple Rates of Delayed Flumioxazin Applications.** NL Hurdle*¹, TL Grey²; ¹University of Georgia, Collierville, TN, ²University of Georgia, Tifton, GA (171)

- 11:15 AM** †**Hydrilla Response to Intermittent-Pulse Herbicide Treatments.** TL Darnell*¹, BP Sperry², CM Prince³; ¹University of Florida/ Center for Aquatic Invasive Plants, Gainesville, FL, ²US Army Corps of Engineers, Gainesville, FL, ³University of Florida, Gainesville, FL (172)
- 11:30 AM** †**Confirmation of Novel Multiple Herbicide-Resistant Redroot Pigweed (*Amaranthus retroflexus*) in North Carolina.** EA Jones*, RJ Andres, DJ Contreras, CW Cahoon, JC Dunne, KM Jennings, RG Leon, W Everman; North Carolina State University, Raleigh, NC (173)
- 11:45 AM** †**Field Trial Evaluation of Herbicides for Control of Aquatic Sedge (*Cyperus blepharoleptos*).** J Jablonski*¹, CM Prince¹, SF Enloe¹, BP Sperry², G MacDonald¹; ¹University of Florida, Gainesville, FL, ²US Army Corps of Engineers, Gainesville, FL (174)
- 12:00 PM** †**Evaluation of Glyphosate and Dicamba Antagonism on Annual Grasses.** RD Langemeier*¹, S Li¹, DP Russell², A Culpepper³, CW Cahoon⁴, P Devkota⁵, KJ Price¹, JT McCaghren¹, L Ianhez Pereira¹; ¹Auburn University, Auburn, AL, ²Auburn University, Madison, AL, ³University of Georgia, Tifton, GA, ⁴North Carolina State University, Raleigh, NC, ⁵University of Florida, Jay, FL (175)
- 12:15 PM** †**Evaluating the Efficacy and Non-Target Injury Potential of Triclopyr When Applied as a Basal Bark Treatment.** CA Oberweiger*¹, SF Enloe²; ¹Center for Aquatic and Invasive Plants - University of Florida, Gainesville, FL, ²University of Florida, Gainesville, FL (176)

TUESDAY MORNING – JANUARY 25

Graduate Student Oral Presentation Contest

LOCATION: Classroom 106
TIME: 7:30 AM - 12:15 PM
Central Time
CHAIR: Thomas R. Butts
University of Arkansas
System Division of
Agriculture
Lonoke, AR
MODERATOR: Pratap Devkota
University of Florida
Jay, FL

***SPEAKER † STUDENT CONTEST**

- 07:30 AM †Evaluating Herbicide Antagonism Following Application of Dicamba, 2,4-D, Glyphosate, and Clethodim.** JA Patterson*, DM Dodds, Z Ugljic, JH Hughes; Mississippi State University, Mississippi State, MS (177)
- 07:45 AM †Purple Nutsedge Tuber Production and Viability in Response to Postemergence Herbicides.** E Begitschke*, KA Tucker, CJ Wang, GM Henry; University of Georgia, Athens, GA (178)
- 08:00 AM †Influence of Low Rates of 2,4-D on Cotton Fiber Quality.** KR Russell*¹, PA Dotray², BR Kelly¹; ¹Texas Tech University, Lubbock, TX, ²Texas Tech University and Texas A&M AgriLife Research and Extension Service, Lubbock, TX (179)

- 08:15 AM** †**Impact of Species Selection on Plant Community, Sod Tensile Strength, and Translocation Rooting of a Pollinator-Garden Sod.** D Koo*, S Askew, CG Goncalves, M Goatley, J Brewer, JM Craft, JM Peppers; Virginia Tech, Blacksburg, VA (180)
- 08:30 AM** †**Barnyardgrass Control with POST Herbicides Following Rice Exposure to Sub-Lethal Concentrations of Paraquat.** TL Sanders*, HM Edwards, JD Peeples, JA Bond; Mississippi State University, Stoneville, MS (181)
- 08:45 AM** †**Response of Goosegrass and Smooth Crabgrass to PRE and POST-Applied Methiozolin.** JM Peppers*, S Askew; Virginia Tech, Blacksburg, VA (182)
- 09:00 AM** †**Effect of Cereal Rye Termination Timing on Palmer Amaranth Emergence and Growth Rate. Implications for Optimizing Herbicide Programs.** C Sias*, ML Flessner, KW Bamber, S Peters; Virginia Tech, Blacksburg, VA (183)
- 09:15 AM** †**Characterizing and Controlling Pronamide and PSII-inhibiting Herbicide Resistant *Poa annua*.** AL Wilber*¹, EB De Castro¹, JD McCurdy¹, MJ Igenes²; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Starkville, MS (184)
- 09:30 AM** †**Performance of Residual Herbicide Combinations in Oklahoma Soybean.** ZR Treadway*, JL Dudak, TA Baughman; Oklahoma State University, Ardmore, OK (185)
- 09:45 AM** †**Response of Green Antelopehorn Milkweed (*Asclepias viridis* W.) to Auxinic Herbicides.** KL Broster*, H Quick, JD Byrd, Jr.; Mississippi State University, Mississippi State, MS (186)
- 10:00 AM** **Break – Zlotnik Ballroom 4/5/6**

- 10:15 AM** †**Sweet Potato Allelopathy, a Strategy for Sustainable Weed Management Under Field Conditions.** V Varsha*¹, IS Werle², MW Shankle³, SL Meyers⁴, T Tseng¹; ¹Mississippi State University, Mississippi State, MS, ²University of Arkansas, Fayetteville, AR, ³Mississippi State University, Pontotoc, MS, ⁴Purdue University, West Lafayette, IN (187)
- 10:30 AM** †**Exploring the Use of Photosynthesis and Pigment Inhibiting Herbicides for Smutgrass (*Sporobolus Indicus*) Management.** ZS Howard*¹, WJ Stutzman², SA Nolte³; ¹Texas A & M University, College Station, TX, ²Texas A&M University Agrilife Extension, College Station, TX, ³Texas A&M AgriLife Extension, College Station, TX (188)
- 10:45 AM** †**Long-Term Effect of Tillage, Crop Rotation, and Dicamba-based Herbicide Programs on Palmer Amaranth Control in Cotton.** R Vulchi*¹, JA McGinty², MV Bagavathiannan¹, SA Nolte³; ¹Texas A&M University, College Station, TX, ²Texas A&M AgriLife Extension Service, Corpus Christi, TX, ³Texas A&M AgriLife Extension, College Station, TX (189)
- 11:00 AM** †**Influence of Herbicides on Germination and Quality of Palmer Amaranth (*Amaranthus palmeri*) Seed.** LD Moore*, KM Jennings, D Monks, RG Leon, MD Boyette, DL Jordan; North Carolina State University, Raleigh, NC (190)
- 11:15 AM** †**A Real-time Weed Escape Detection System and Web User Interface for Precision Weed Control Applications.** BB Sapkota*, MV Bagavathiannan; Texas A&M university, College Station, TX (191)

- 11:30 AM** †**Combining Pre-Emergent Herbicides with Adjuvants/slow-release Carriers for Improving Weed Suppression and Crop Safety in Tomato Plasticulture Production.** R Tiwari*¹, N Boyd², S Daroub³, N Timilsina¹, R Kanissery¹; ¹University of Florida/Institute of Food and Agricultural Sciences-Southwest Florida Research and Education Center, Immokalee, FL, ²University of Florida/Institute of Food and Agricultural Sciences-Gulf Coast Research and Education Center, Wimauma, FL, ³University of Florida/Institute of Food and Agricultural Sciences- Everglades Research and Education Center, Everglades, FL **(192)**
- 11:45 AM** †**Image-Based Detection and Site-Specific Control of Late-Season Weed Escapes in Cotton Using an RTK-GPS Guided Remotely Piloted Aerial Application System.** U Torres*¹, DE Martin², BB Sapkota¹, B Gurjar¹, M Kutugata¹, MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²USDA-ARS, College Station, TX **(193)**
- 12:00 PM** †**Postemergence Herbicides Screening for Tolerance in Lettuce.** S Vemula*¹, D Otero², GV Sandoya², R Kanissery³, G MacDonald⁴, HS Sandhu²; ¹University of Florida, Agronomy Department, Gainesville, FL, ²University of Florida, Belle Glade, FL, ³University of Florida/Institute of Food and Agricultural Sciences-Southwest Florida Research and Education Center, Immokalee, FL, ⁴University of Florida, Gainesville, FL **(194)**

TUESDAY AFTERNOON – JANUARY 25

Forest Vegetation Management

LOCATION: Classroom 105
TIME: 2:00 PM - 3:45 PM Central Time
CHAIR: David P. Russell
Auburn University
Madison, AL
MODERATOR: David P. Russell
Mississippi State University
Mississippi State, MS

***SPEAKER**

- 02:00 PM** **Tolerance of Loblolly Pine Seedlings to Increased Rates of Aminopyralid + Florpyrauxifen.** JE Ezell*¹, AB Self², AW Ezell¹; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Grenada, MS (195)
- 02:15 PM** **Old-Field Planted Longleaf Pine (*Pinus palustris*) Survival and Growth Response to Various Herbaceous Weed Control Herbicides and Application Timings After Eleven Years.** ED Dickens*; University of Georgia, Athens, GA (196)
- 02:30 PM** **Early Pine Control Response to July Applications of Different Glufosinate Products.** AW Ezell*¹, AB Self², JE Ezell¹; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Grenada, MS (197)
- 02:45 PM** **Evaluation of Two Application Timings of Choline Triclopyr, Fluroxypyr, and GF-3886 as Replacements for Glyphosate in the Control of Volunteer Pine in Forestry.** DC Clabo*¹, ED Dickens²; ¹University of Georgia, Tifton, GA, ²University of Georgia, Athens, GA (198)

- 03:00 PM** **Loblolly Pine Seedling Growth Following HWC Applications Using Oust XP, Arsenal AC, Arsenal, Velpar L, and Esplanade SC.** AW Ezell*¹, AB Self², JE Ezell¹; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Grenada, MS (199)
- 03:15 PM** **Middle and Late Summer Forestry Site Preparation Tank Mix Evaluations of Imazapyr with Choline Triclopyr or Fluroxypyr Applied as Two Spray Solutions.** DC Clabo*¹, ED Dickens²; ¹University of Georgia, Tifton, GA, ²University of Georgia, Athens, GA (200)
- 03:30 PM** **Site Preparation with Mixtures Using Triclopyr, Imazapyr, Triclopyr Choline, Fluroxypyr, and Aminopyralid + Florpyrauxifen.** AB Self*¹, AW Ezell², JE Ezell³; ¹Mississippi State University, Grenada, MS, ²Mississippi State Univ. - Retired, Mississippi State, MS, ³Mississippi State University, Mississippi State, MS (201)
- 03:45 PM** **Break – Zlotnik Ballroom 4/5/6**

TUESDAY AFTERNOON – JANUARY 25

Weed Management in Pastures and Rangeland

LOCATION: Classroom 105
TIME: 4:15 PM - 4:45 PM Central
Time
CHAIR: David P. Russell
Auburn University
Madison, AL
MODERATOR: Kayla Broster
Mississippi State University
Mississippi State, MS

***SPEAKER**

**04:15 PM Florpyrauxifen-benzyl Containing
Herbicide Effects on Hayfield Sward
Composition.** WC Greene*, ML Flessner, MP
Spath, KW Bamber, C Sias; Virginia Tech,
Blacksburg, VA (202)

**04:30 PM What We've Learned About Foxtail (*Setaria*
ssp.) Management in Forages: A Multiyear
Review.** DP Russell*¹, JD Byrd, Jr.², M
Zaccaro-Gruener³, H Quick²; ¹Auburn
University, Madison, AL, ²Mississippi State
University, Mississippi State, MS, ³University
of Arkansas, Fayetteville, AR (203)

TUESDAY AFTERNOON – JANUARY 25

Weed Management in Horticultural Crops

LOCATION: Classroom 106
TIME: 2:00 PM - 3:00 PM Central Time
CHAIR: Peter J. Dittmar
University of Florida
Gainesville, FL
MODERATOR: Peter J. Dittmar
University of Florida
Gainesville, FL

***SPEAKER**

- 02:00 PM Weed Control in Specialty Crops Using Bicyclopyrone.** P Eure¹, TH Beckett¹, JW Gordy*²; ¹Syngenta Crop Protection, Greensboro, NC, ²Syngenta Crop Protection, Pearland, TX (204)
- 02:15 PM Deposition Agents to Enhance Residual Herbicide Use in Horticulture Crops Grown in Sandy Soils.** R Kanissery*; University of Florida/Institute of Food and Agricultural Sciences-Southwest Florida Research and Education Center, Immokalee, FL (205)
- 02:30 PM Influence of Planting Interval, Tillage, and Irrigation on the Residual Activity of Glyphosate in Bareground Squash.** TM Randell*¹, JC Vance¹, LC Hand¹, HE Wright², A Culpepper¹; ¹University of Georgia, Tifton, GA, ²University of Georgia, Athens, GA (206)
- 02:45 PM Integrated Weed Management Using Flaming, Cultivation, and Hand Weeding in Organic Carrot Production Systems with Different Fertilizer Types.** PJ Dittmar*¹, DD Treadwell¹, G Maltais-Landry²; ¹University of Florida, Gainesville, FL, ²University of Florida, Soil and Water Sciences Department, Gainesville, FL (207)

TUESDAY AFTERNOON – JANUARY 25

Educational Aspects of Weed Control

LOCATION: Classroom 106
TIME: 4:15 PM - 4:45 PM
Central Time
CHAIR & MODERATOR: J. Connor Ferguson
Sesaco Corporation
Yukon, OK

***SPEAKER**

04:15 PM The Ninth Circuit Court, "Thoughts of a Weed Scientist". TA Baughman*; Oklahoma State University, Ardmore, OK (208)

04:30 PM A Global Look at Herbicide-Resistant Rice Technology and Weedy Rice. N Roma-Burgos*; University of Arkansas, Fayetteville, AR (209)

WEDNESDAY MORNING – JANUARY 26

Weed Management in Turf

LOCATION: Classroom 105
TIME: 8:00 AM - 11:45 PM
Central Time
CHAIR & MODERATOR: John R. Brewer
Syngenta Crop
Protection
Vero Beach, FL

***SPEAKER**

- 08:00 AM A Decision-Support Tool to Facilitate Herbicide Mode of Action Diversity for Annual Bluegrass (*Poa Annua*) Control in Turfgrass Systems.** V Kankarla*¹, EB De Castro², D Hathcoat³, R Grubbs⁴, JD McCurdy²; ¹Texas A & M University, College Station, TX, ²Mississippi State University, Mississippi State, MS, ³Texas A&M AgriLife Research, College Station, TX, ⁴Texas A & M University, Dallas, TX (210)
- 08:15 AM The Use of Computer Vision for Weed Detection in Turfgrass.** J Yu*, MV Bagavathiannan; Texas A&M University, College Station, TX (211)
- 08:30 AM Turfgrass and Weed Response to Flame Duration.** CG Goncalves*, S Askew; Virginia Tech, Blacksburg, VA (212)
- 08:45 AM Dynamics of Foliar-and Soil-applied Pronamide Within Resistant *Poa annua*.** MJ Ignes*; Mississippi State University, Starkville, MS (213)
- 09:00 AM ALS-Resistant Green Kyllinga in Turfgrass.** D Westbury*¹, P McCullough¹, JS McElroy²; ¹University of Georgia, Griffin, GA, ²Auburn University, Auburn, AL (214)

- 9:15 AM** **Late Season Control of Goosegrass and Kyllinga.** A Gore*¹, LB McCarty², T Stoudemayer²; ¹Clemson University, Abbeville, SC, ²Clemson University, Clemson, SC (215)
- 09:30 AM** **A New Turfgrass Herbicide from Bayer to Meet Customer Needs.** DE Carroll*¹, B Spesard², JW Hempfling³, S Wells⁴, J Michel³, P Burgess⁵; ¹The University of Tennessee, Knoxville, TN, ²Bayer Environmental Science, A Division of Bayer CropScience, Cary, NC, ³Bayer Environmental Science, Cary, NC, ⁴Bayer Crop Sciences, Milledgeville, GA, ⁵Bayer R&D Services, Na, NJ (216)
- 9:45 AM** **Late Season Dallisgrass and Lespedeza Control in 'Tifway' Bermudagrass.** T Stoudemayer*, LB McCarty; Clemson University, Clemson, SC (217)
- 10: AM** **Break – Zlotnik Ballroom 4/5/6**
- 10:15 AM** **Influence of Post-treatment Irrigation Timings and Herbicide Placement on Bermudagrass and Goosegrass Response to Topramezone and Metribuzin Programs.** S Askew*, J Brewer; Virginia Tech, Blacksburg, VA (218)
- 10:30 AM** **Pre- and Post-Emergence *Poa annua* and Broadleaf Control in Bermudagrass.** JW Taylor*, LB McCarty, T Stoudemayer; Clemson University, Clemson, SC (219)
- 10:45 AM** **Regional Response of Zoysiagrass Turf to Glyphosate and Glufosinate Applied Based on Accumulated Heat Units.** S Askew*¹, JM Craft¹, JD McCurdy²; ¹Virginia Tech, Blacksburg, VA, ²Mississippi State University, Mississippi State, MS (220)
- 11:00 AM** **Compatibility of Methiozolin and Several Plant Growth Regulators.** JM Peppers*, S Askew; Virginia Tech, Blacksburg, VA (221)

- 11:15 AM Update on Herbicide-Resistant Goosegrass (*Eleusine indica*) Screening and Identification.** JS McElroy*¹, J Harris¹, J Patel¹, BC Johnson¹, C Rutland¹, B Spesard²; ¹Auburn University, Auburn, AL, ²Bayer Environmental Science, A Division of Bayer CropScience, Cary, NC (222)
- 11:30 AM Response of Texas and Florida Populations of *Poa annua* L. (Annual Bluegrass) to Preemergence Herbicides.** AW Osburn*¹, R Bowling², JB Unruh³, C McKeithen³, MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Texas A&M University, Dallas, TX, ³University of Florida, Jay, FL (223)

WEDNESDAY MORNING – JANUARY 26

Regulatory Aspects of Weed Control

LOCATION: Classroom 104
TIME: 10:15 AM - 10:45 AM
Central Time
CHAIR: Benjamin P. Sperry
US Army Corps of
Engineers
Gainesville, FL
MODERATOR: Benjamin P. Sperry
US Army Corps of
Engineers
Gainesville, FL

***SPEAKER**

10:15 AM Dicamba and 2,4-D Residues in Palmer Amaranth: When Were the Herbicides Applied? JK Norsworthy*¹, M Zaccaro-Gruener¹, LB Piveta¹, T Barber², TR Butts²;
¹University of Arkansas, Fayetteville, AR,
²University of Arkansas System Division of Agriculture, Lonoke, AR (224)

10:30 AM Aquatic Herbicide Spray Loss: Best Management Practices and Implications. BP Sperry*; US Army Corps of Engineers, Gainesville, FL (225)

WEDNESDAY MORNING – JANUARY 26

Invasive Species

LOCATION: Classroom 104
TIME: 11:00 AM - 11:30 AM
Central Time
CHAIR: Darrin M. Dodds
Mississippi State University
Mississippi State, MS
MODERATOR: Gray Turnage
Mississippi State University
Mississippi State, MS

***SPEAKER**

- 11:00 AM Refining Triclopyr Use Patterns to Minimize Non-target Injury in Natural Areas.** J Glueckert¹, CA Oberweger², SF Enloe*³; ¹University of Florida, Boynton Beach, FL, ²Center for Aquatic and Invasive Plants - University of Florida, Gainesville, FL, ³University of Florida, Gainesville, FL (226)
- 11:15 AM Meso-Scale and Field Evaluations of Cuban Bulrush Response to Select Herbicide Treatments.** G Turnage*, A McLeod; Mississippi State University, Mississippi State, MS (227)

WEDNESDAY MORNING – JANUARY 26

Physiological and Biological Aspects of Weed Control

LOCATION: Classroom 104
TIME: 11:45 AM - 12:00 PM
Central Time
CHAIR: Samer Y. Rustom
LSU AgCenter
Baton Rouge, LA
MODERATOR: Samer Y. Rustom
LSU AgCenter
Baton Rouge, LA

***SPEAKER**

11:45 AM Metabolism of Aryloxyphenoxypropionic Acid Herbicides by Resistant Barnyardgrass [*Echinochloa crus-galli* (L.) P. Beauv.]. J Hwang*¹, JK Norsworthy¹, LB Piveta¹, T Barber², TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (228)

WEDNESDAY MORNING – JANUARY 26

Weed Management in Agronomic Crops

LOCATION: Classroom 106
TIME: 8:00 AM - 12:00 PM
Central Time
CHAIR & MODERATOR: Scott A. Nolte
Texas A&M AgriLife
Extension
College Station, TX

***SPEAKER**

- 08:00 AM Summer Cover Crop Mixes for Post-harvest Weed Suppression in Southeast Texas.** JM McVane*, MV Bagavathiannan; Texas A&M University, College Station, TX (229)
- 08:15 AM Effect of Rye Biomass and Herbicide Program for Weed Control in Cotton.** YR Upadhyaya*¹, P Devkota², N Singh², MJ Mulvaney³, W Hammond¹, H Bayabil¹;
¹University of Florida, Gainesville, FL,
²University of Florida, Jay, FL, ³Mississippi State University, Mississippi State, MS (230)
- 08:30 AM Rye Cover Crop Termination Timing Effects on Weed Suppression in No-till Corn.** P Aryal*¹, CA Chase²; ¹University of Florida, Gainesville, FL, ²University of Florida, Horticultural Sciences Department, Gainesville, FL (231)
- 08:45 AM Ryegrass Burndown Evaluations for Minimum Tillage Systems.** L Pereira*, S Li, RD Langemeier, JT McCaghren; Auburn University, Auburn, AL (232)
- 09:00 AM The Effect of GWN10598 Seed Treatment on Rice Response to Pre-emergence Herbicides in Two Soil Types.** S Karaikal*, IS Werle, M Machado Noguera, N Roma-Burgos; University of Arkansas, Fayetteville, AR (233)

- 09:15 AM Rice Cultivar Tolerance to Microencapsulated Acetochlor and a Fenclorim Seed Treatment.** TH Avent*¹, JK Norsworthy¹, JA Fleming¹, M Zaccaro-Gruener¹, TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (234)
- 09:30 AM Coating Florpyrauxifen-benzyl on Urea for Control of Key Weeds in Rice.** B Cotter*¹, JK Norsworthy¹, CH Arnold¹, TH Avent¹, TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (235)
- 09:45 AM Barnyardgrass and Weedy Rice Control in Response to Warrant Rate and Application Timing.** SC Noe*¹, JK Norsworthy², TH Avent², MM Houston², TR Butts³; ¹University of Arkansas, Fayetteville, KY, ²University of Arkansas, Fayetteville, AR, ³University of Arkansas System Division of Agriculture, Lonoke, AR (236)
- 10:00 AM Break – Zlotnik Ballroom 4/5/6**
- 10:15 AM Cultural Weed Management Strategies for Rice: Effects of Drill Spacing and Rice Cultivar.** NH Reed*¹, TR Butts², JK Norsworthy¹, J Hardke³, T Barber², JA Bond⁴, A Poncet¹, BM Davis⁵, M Sumner⁵; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR, ³University of Arkansas, Stuttgart, AR, ⁴Mississippi State University, Stoneville, MS, ⁵University of Arkansas, Lonoke, AR (237)
- 10:30 AM Tolerance of Provisia and Max-Ace Rice to Quizalofop.** N Godara*¹, JK Norsworthy¹, TH Avent¹, T Barber²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (238)

- 10:45 AM** **Effects of Rice Herbicides and Hormones Applied at Reproductive Stage on Seed Viability of Barnyardgrass (*Echinochloa crus-galli*).** I Ceperkovic*¹, J Samford², Z Xin-Gen³, MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Texas A&M AgriLife Research, Sealy, TX, ³Texas A&M University, Beaumont, TX (239)
- 11:00 AM** **Evaluation of Benzobicyclon Rates for the Control of Amazon Sprangletop and Rice Flatsedge in a Flooded Environment.** ZT Hill*¹, T Barber², RC Doherty³, LM Collie⁴, A Ross⁵; ¹University of Arkansas Cooperative Extension Service, Monticello, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR, ³University of Arkansas Division of Agriculture Research & Extension, Monticello, AR, ⁴University of Arkansas, Lonoke, AR, ⁵University of Arkansas Cooperative Extension Service, Ward, AR (240)
- 11:15 AM** **Postemergence Herbicides for Broadleaf Weed Control in Sesame: The Good, The Bad, and The Ugly.** J Ferguson*¹, ZA Carpenter², G De La Fuente³, E Votava⁴; ¹Sesaco Corporation, Yukon, OK, ²Oro Agri Inc., New Braunfels, TX, ³Sesaco Corporation, San Antonio, TX, ⁴Sesaco Corporation, Austin, TX (241)
- 11:30 AM** **Volunteer Rapeseed Issues and Management.** V Kumar*, V Singh; Virginia Tech, Painter, VA (242)
- 11:45 AM** **Evaluation of Reviton in Preplant Burndown Programs.** LM Collie¹, T Barber², RC Doherty*³, ZT Hill⁴, A Ross⁵; ¹University of Arkansas, Lonoke, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR, ³University of Arkansas Division of Agriculture Research & Extension, Monticello, AR, ⁴University of Arkansas Cooperative Extension Service, Monticello, AR, ⁵University of Arkansas Cooperative Extension Service, Ward, AR (243)

WEDNESDAY AFTERNOON – JANUARY 26

Weed Management in Agronomic Crops

LOCATION: Classroom 105
TIME: 2:00 PM - 5:00 PM Central Time
CHAIR: Scott A. Nolte
Texas A&M AgriLife Extension
College Station, TX
MODERATOR: Joshua McGinty
Texas A&M University
College Station, TX

***SPEAKER**

- 02:00 PM Utilizing Preemergence Herbicides to Maximize the Value of Machine-Vision Application Technology.** JW Adams*¹, P Berry², R Wuerffel³, DL Bowers⁴; ¹Syngenta Crop Protection, Fargo, ND, ²Syngenta Crop Protection, Monticello, IL, ³Syngenta Crop Protection, Gerald, MO, ⁴Syngenta Crop Protection, Greensboro, NC (244)
- 02:15 PM Quantifying the Impact of Herbicide Drift on Peanut Using UAV.** N Singh*¹, P Devkota¹, J Iboyi¹, MJ Mulvaney²; ¹University of Florida, Jay, FL, ²Mississippi State University, Mississippi State, MS (245)
- 02:30 PM Unmanned Aerial System-Based Herbicide Applications in Agronomic Crops.** V Singh*, D Srivastava, V Kumar; Virginia Tech, Painter, VA (246)
- 02:45 PM Influence of Speed on the Effectiveness of Herbicide Applications.** AA Tavares*¹, B Vukoja², GR Kruger³, DM Dodds¹; ¹Mississippi State University, Mississippi State, MS, ²University of Nebraska-Lincoln, North Platte, NE, ³BASF Corporation, Research Triangle Park, NC (247)

- 03:00 PM** **Developing a Micro-Volume Herbicide Spraying System for Site-Specific Weed Management.** B Gurjar*¹, C Hu¹, SB Mirsky², R Hardin¹, MV Bagavathiannan¹; ¹Texas A&M university, College Station, TX, ²USDA ARS, Beltsville, MD (248)
- 03:15 PM** **First Year Summary of the Redekop Seed Control Unit for Harvest Weed Seed Control in Wheat and Soybean.** EC Russell*, ML Flessner, WC Greene, MP Spoth, C Sias, KW Bamber; Virginia Tech, Blacksburg, VA (249)
- 03:30 PM** **Break – Zlotnik Ballroom 4/5/6**
- 03:45 PM** **Understanding the Resistance Mechanism of Palmer Amaranth to Trifluralin: Examination of Gene Amplification, Metabolism, and Target Site Mutations.** F Gonzalez Torralva*, JK Norsworthy; University of Arkansas, Fayetteville, AR (250)
- 04:00 PM** **Bioherbicidal Potential of Cotton Chromosome Substitution Lines on the Germination and Growth of Weeds.** W Segbefia*¹, GA Fuller¹, PS Sharma¹, KA Boateng¹, J Kwetey², T Tseng¹; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Starkville, MS (251)
- 04:15 PM** **A Proactive Approach to Confirm the Glufosinate Resistance Before Widespread Evolution.** EA Jones*, DJ Contreras, CW Cahoon, JC Dunne, KM Jennings, RG Leon, W Everman; North Carolina State University, Raleigh, NC (252)
- 04:30 PM** **Potassium Borate as a Volatility Reducing Agent: What We Know Today.** MC Castner*¹, JK Norsworthy¹, TL Roberts¹, T Barber²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR (253)

04:45 PM Efficacy of Phosphite and Glufosinate Tank-mix for Controlling Palmer Amaranth and Johnsongrass. S Singh*¹, D Hathcoat², K Hake³, G Morgan³, MV Bagavathiannan¹;
¹Texas A&M University, College Station, TX,
²Texas A&M AgriLife Research, College Station, TX, ³Cotton Incorporated, Cary, NC
(254)

WEDNESDAY AFTERNOON – JANUARY 26

Weed Management in Agronomic Crops

LOCATION: Classroom 106
TIME: 2:00 PM - 5:00 PM Central
Time
CHAIR: Scott A. Nolte
Texas A&M AgriLife
Extension
College Station, TX
MODERATOR: Zachary S. Howard
Texas A&M University
College Station, TX

***SPEAKER**

- 02:00 PM Evaluation of Fluridone in a Peanut Weed Control Program.** LM Collie*¹, T Barber², RC Doherty³, ZT Hill⁴, A Ross⁵, TR Butts²;
¹University of Arkansas, Lonoke, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR, ³University of Arkansas Division of Agriculture Research & Extension, Monticello, AR, ⁴University of Arkansas Cooperative Extension Service, Monticello, AR, ⁵University of Arkansas Cooperative Extension Service, Ward, AR (255)
- 02:15 PM Integrated Weed Management Practices to Control ALS and PPO-Inhibitor Resistant Palmer Amaranth in Peanut.** JT McCaghren*, S Li, RD Langemeier, L Pereira; Auburn University, Auburn, AL (256)
- 02:30 PM Cotton Response to Non-Labeled Herbicides.** GA Stephens*, DM Dodds, JS Calhoun, J Krutz; Mississippi State University, Mississippi State, MS (257)

- 02:45 PM Cotton Stalk Regrowth Management in Enlist Cotton Systems in South Texas.** S Samuelson*¹, M Lovelace²; ¹Corteva Agriscience, Bryan, TX, ²Corteva Agriscience, Oklahoma City, OK (258)
- 03:00 PM A Beltwide Study Evaluating an Integrated Approach to Palmer Amaranth Management in Southern US Cotton.** SE Kezar*¹, MV Bagavathiannan¹, PA Dotray², JK Norsworthy³, RG Leon⁴, G Morgan⁵, FH Oreja⁴, DC Foster⁶, MM Houston³, D Hathcoat⁷, KR Russell⁸; ¹Texas A&M University, College Station, TX, ²Texas Tech University and Texas A&M AgriLife Research and Extension Service, Lubbock, TX, ³University of Arkansas, Fayetteville, AR, ⁴North Carolina State University, Raleigh, NC, ⁵Cotton Incorporated, Cary, NC, ⁶University of Tennessee, Jackson, TN, ⁷Texas A&M AgriLife Research, College Station, TX, ⁸Texas Tech University, Lubbock, TX (259)
- 03:15 PM Response of Palmer Amaranth Accessions Across the U.S. to Dicamba and Glufosinate.** LB Piveta*¹, JK Norsworthy¹, KW Bradley², KL Gage³, DB Reynolds⁴, LM Lazaro⁵, L Steckel⁶, BG Young⁷; ¹University of Arkansas, Fayetteville, AR, ²University of Missouri, Columbia, MO, ³Southern Illinois University Carbondale, Carbondale, IL, ⁴Mississippi State University, Mississippi State, MS, ⁵LSU Ag Center, Baton Rouge, LA, ⁶University of Tennessee, Jackson, TN, ⁷Purdue University, Brookston, IN (260)
- 03:30 PM Break – Zlotnik Ballroom 4/5/6**
- 03:45 PM Comparison of Engenia/Liberty Tank-Mixes and Sequential Application.** CR White*, W Keeling, J Spradley; Texas A&M AgriLife Research, Lubbock, TX (261)

- 04:00 PM Acuron GT: Mesotrione Plus Bicyclopyrone for Enhanced Weed Control in GT Corn.**
BD Black*¹, RD Lins², M Saini³, M Kitt³;
¹Syngenta Crop Protection, Searcy, AR,
²Syngenta Crop Protection, Rochester, MN,
³Syngenta Crop Protection, Greensboro, NC
(262)
- 04:15 PM Soybean Weed Control in Southeast Texas.**
M Matocha*; Texas AgriLife Extension
Service, College Station, TX (263)
- 04:30 PM TENDOVO - Setting the Standard for Soybean Herbicides.** JC Holloway Jr*;
Syngenta Crop Protection, LLC, Jackson, TN
(264)
- 04:45 PM Dicamba Is Done - The Evolution of Synthetic-Auxin Resistant Pigweed in Tennessee: An Extension Perspective.** L
Steckel*, DC Foster; University of Tennessee,
Jackson, TN (265)

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SWSS Sustaining Members – 2021-22

ADAMA

AMVAC Chemical Corp.

BASF Corporation

BASF Seed and Traits

Bayer CropScience

Belchim

Bellspray, Inc.

Corteva Agriscience

FMC

Greenleaf Technologies

K-I Chemical U.S.A. Inc.

Syngenta Crop Protection

TeeJet Technologies - Spraying Systems Co.

United Phosphorus, Inc.

Valent USA Corp

Winfield United

Notes

Personal Time Schedule

Time	Monday	Tuesday	Wednesday
8:00			
8:15			
8:30			
8:45			
9:00			
9:15			
9:30			
9:45			
10:00		Break	Break
10:30			
11:00			
11:30			
12:00			SWSS Awards Luncheon
12:15			
12:30		Grad Student Luncheon	
12:45			
1:00	General Session		
1:15			
1:30			
1:45			
2:00			
2:15			
2:30			
2:45			
3:00	Break		
3:30		Women's Networking Event	
3:45			Break
4:00			
4:30			
5:00			
5:30			Graduate Student Awards Reception
6:00			
6:30			
7:00			
7:15			
7:30			
8:00			

