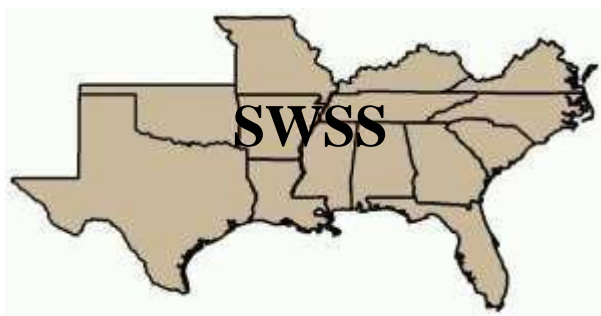


Program

76th

Annual Meeting

Southern Weed Science Society



Theme:

“Stepping up to the Challenge”

January 22-26, 2023

Renaissance Hotel

Baton Rouge, LA

PLEASE SUBMIT ABSTRACTS TO WEBSITE PRIOR TO MEETING

PLEASE SUBMIT POWERPOINT FILES TO WEBSITE

Local Arrangements Committee

Connor Webster	Chair
Connor Webster	Registration
Connor Webster	Audio Visual
Connor Webster	Equipment Storage & Security
Connor Webster Kelley Mazur	Graduate Students & Room Reservations
Kelley Mazur	Information Booth & Message Coordinator
Kelley Mazur	Meal Functions
Connor Webster	Room Setup
Connor Webster	Signs and Exhibits
Connor Webster	Poster Setup

Special Events

Endowment Function/Graduate Student Mixer & Social

Sunday, January 22, 2023

6:00 p.m. – 9:00 p.m.

SWSS General Session

Monday, January 23, 2023

1:00 p.m. – 5:15 p.m.

Graduate Student Luncheon

Tuesday, January 24, 2023

12:30 p.m. – 2:00 p.m.

Women's Networking Event

Tuesday, January 24, 2023

3:30 p.m. – 5:00 p.m.

Graduate Student Quiz Bowl

Tuesday, January 24, 2023

6:00 p.m. – 7:00 p.m.

Christian Fellowship Breakfast

Wednesday, January 25, 2023

6:30 a.m. – 7:45 a.m.

SWSS Awards Luncheon

Wednesday, January 25, 2023

12:00 p.m. – 2:00 p.m.

Graduate Student Awards Reception and Mixer

Wednesday, January 25, 2023

5:00 p.m. – 8:00 p.m.

Future Meetings

WSSA/SWSS Joint Meeting

Hyatt Regency

San Antonio, TX – January 22 - 24, 2024

Charleston Marriott

Charleston, SC – January 19 - 23, 2025

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Southern Weed Science Society

Committees and Chairpersons

2023 Program	Eric Castner
2024 Program	Todd Baughman
Awards	Clete Youmans
Business Manager/Sales Coordination	Kelley Mazur
Computer Application	Gary Schwarzlose
Constitution & Operating Procedures	Carroll Johnson
Education Units	Bruce Kirksey
Endowment Foundation	Mike Lovelace
Finance	Todd Baughman
Graduate Student Organization	Sarah Kezar
Historical	John Byrd
Legislative and Regulatory	Todd Baughman
Local Arrangements	Connor Webster
Long Range Planning	Eric Webster
Newsletter Editor	Tommy Butts
Nominating	Clete Youmans
Research Committee	Todd Baughman
Resolutions and Necrology	Michael Flessner
Site Selection	Andrew Price
Southern Weed Contest	Drew Ellis
Student Program	Matthew Wiggins
Sustaining Membership	Luke Etheredge
Weed Resistance and Technology Stewardship	Michael Flessner

Program Section Chairs

Agronomic Crops	Scott Nolte
Weed Management in Turf	Donnie Miller
Weed Management in Pastures & Rangeland	David Russell
Weed Management in Horticultural Crops	Peter Dittmar
Weed Biology and Ecology	Peter Dittmar
Forest Vegetation Management	David Russell
Physiological and Biological Aspects of Weed Control	Sam Rustom
Educational Aspects of Weed Control	Ben Sperry
Regulatory Aspects of Weed Control	Ben Sperry
Invasive Species	Sam Rustom
Weed Management in Organic Production Systems	Sam Rustom
New Technologies	Lawson Priess
Soil and Environmental Aspects of Weed Science	Ben Sperry
Posters	Pratap Devkota
Graduate Student Contest	Matthew Wiggins

Registration

MONDAY, January 23, 2023

8:00 a.m. – 5:00 p.m.

TUESDAY, January 24, 2023

8:00 a.m. – 5:00 p.m.

WEDNESDAY, January 25, 2023

8:00 a.m. – 3:00 p.m.

Displays and Posters

Set-up time for displays and the Poster Session is 10:00 a.m. to noon on Monday, January 23, 2023, in Salon I. The poster area will be open from 3:00 p.m. to 5:00 p.m. on Monday and 7:00 am to 5:00 p.m. on Tuesday.

Authors of posters will be present to discuss their posters from 7:00 a.m. to 8:00 a.m. on Tuesday.

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

Displays and Posters must be removed before 10:00 a.m. on Wednesday, January 25, 2023.

Silent Auction

Silent Auction will take place in Pre-Function Area and will close on **Wednesday, January 25, 2023, at 1:00 p.m.**

Auction item pick up will immediately follow and close at approximately 3:00 p.m.

Safety & Conduct

Please contribute to a conference environment in which diverse attendees may learn, network, and enjoy the company of colleagues in a professional and harassment-free atmosphere.

The SWSS believes in and supports the laws designated to keep our Society safe and designed to protect the environment. If you believe that an unsafe condition exists in our Society, bring it immediately to the attention of the President, a member of the Board, or Business Manager. If an incident takes place, report it pursuant to policy and immediately take action to address the problem. Any incident or situation that violates the law or this policy should be immediately reported to the Business Manager; in person or via this contact information: info@swss.ws or 720-445-4789.

Please keep your personal belongings with you at all times.

Location of Events

SWSS Executive Board Meetings	<i>Kullman Boardroom</i>
Local Arrangements	<i>Des Cannes</i>
Graduate Contest Judge's Breakfast	<i>Lacassine/Cocodrie</i>
Graduate Contest Judge's Work Room	<i>Kullman Boardroom</i>
General Session	<i>Salons II, III & IV</i>
SWSS Business Meeting	<i>Salons II, III & IV</i>
SWSS Quiz Bowl	<i>Salons II, III & IV</i>
GSO Luncheon	<i>Salon II</i>
Christian Fellowship Breakfast	<i>Salon IV</i>
Women's Networking Mixer	<i>Salon II</i>
SWSS Luncheon	<i>Salons II, III & IV</i>
SWSS Student Award Reception	<i>Salons II, III & IV</i>

PROGRAM OVERVIEW

Schedule of Events and Meetings

SUNDAY, January 22, 2023

3:30 p.m. – 5:30 p.m.	SWSS Executive Board Meeting <i>Kullman Boardroom</i>
6:00 p.m. – 9:00 p.m.	Endowment Function/Graduate Student Mixer & Social <i>Top Golf</i> <i>Sponsored by: BASF, Bayer, FMC, Syngenta</i>
8:00 a.m. – 5:00 p.m.	Local Arrangements <i>Des Cannes</i>

MONDAY, January 23, 2023

7:00 a.m. – 5:00 p.m.	Local Arrangements <i>Des Cannes</i>
8:00 a.m. – 5:00 p.m.	Registration/Presentation Loading <i>Meeting Level 1 Foyer</i>
8:00 a.m. – 9:00 a.m.	Legislative & Regulatory Comm. <i>Lacassine</i>
8:00 a.m. – 9:00 a.m.	Weed Resistance Resistant and Technology Stewardship Comm. <i>Cocodrie</i>
8:00 a.m. – 9:00 a.m.	Endowment Foundation Committee <i>Timbalier</i>
9:00 a.m. – 10:00 a.m.	Site Selection Committee <i>Lacassine</i>
9:00 a.m. – 10:00 a.m.	Weed Contest Committee <i>Cocodrie</i>

MONDAY, January 23, 2023

9:00 a.m. – 10:00 a.m.	Finance Committee <i>Timbalier</i>
10:00 a.m. – 11:00 a.m.	Research Committee <i>Lacassine</i>
11:00 a.m. – Noon	SWSS Executive Board Meeting <i>Kullman Boardroom</i>
1:00 p.m. – 5:00 p.m.	General Session <i>Salons II, III & IV</i>
5:15 p.m. – 6:00 p.m.	SWSS Business Meeting <i>Salons II, III & IV</i>
Immediately after Business Meeting	Weed Contest Committee <i>Cocodrie</i>

TUESDAY, January 24, 2023

6:00 a.m. – 8:00 a.m.	Graduate Student Contest Judges Breakfast <i>Lacassine/Cocodrie</i>
7:00 a.m. – 7:00 p.m.	Local Arrangements <i>Des Cannes</i>
8:00 p.m. – 5:00 p.m.	Graduate Student Contest Judges Work Room <i>Kullman Boardroom</i>
8:00 a.m. – 5:00 p.m.	Registration/Presentation Loading <i>Meeting Level 1 Foyer</i>
12:30 p.m. – 2:00 p.m.	Graduate Student Luncheon <i>Salon II</i> <i>Sponsored by: Syngenta</i>
3:30 p.m. – 5:00 p.m.	Women's Networking Event <i>Salon II</i> <i>Sponsored by: Corteva Agriscience</i>
6:00 p.m. – 7:00 p.m.	Graduate Student Quiz Bowl <i>Salons II, III & IV</i> <i>Sponsored by: Sustaining Members</i>

WEDNESDAY, January 25, 2023

6:30 a.m. – 7:45 a.m.	Christian Fellowship Breakfast <i>Salon IV</i>
8:00 a.m. – 5:00 p.m.	Registration/Presentation Loading <i>Meeting Level 1 Foyer</i>
7:00 a.m. – 5:00 p.m.	Local Arrangements <i>Des Cannes</i>
12:30 p.m. – 2:00 p.m.	SWSS Awards Luncheon <i>Salons II, III & IV</i>

WEDNESDAY, January 25, 2023

5:00 p.m. – 6:00 p.m.	SWSS Mixer <i>Salons II, III & IV</i>
6:00 p.m. – 8:00 p.m.	SWSS Graduate Student Awards Reception <i>Salons II, III & IV</i>

THURSDAY, January 26, 2023

7:00 a.m. – 10:00 a.m.	SWSS Executive Board Breakfast & Board Meeting <i>Lacassine</i>
8:00 a.m. – 9:00 a.m.	Local Arrangements Committee <i>Des Cannes</i>

TECHNICAL PROGRAM OVERVIEW

MONDAY, January 23, 2023

10:00 a.m. – Noon	Poster Setup <i>Salon I</i>
1:00 p.m. – 5:15 p.m.	General Session <i>Salons II, III & IV</i>
3:00 p.m. – 5:00 p.m.	Posters - Available for Viewing <i>Salon I</i>

TUESDAY, January 24, 2023

7:00 a.m. – 5:00 p.m.	Posters Session <i>Salon I</i>
8:00 a.m. – 12:00 p.m.	MS Student Paper Contest <i>Salon IV</i>
8:00 a.m. – 11:45 a.m.	MS Student Paper Contest <i>Bienvenue</i>
7:30 a.m. – 11:30 a.m.	PhD Student Paper Contest <i>Salon II</i>
8:00 a.m. – 12:00 p.m.	PhD Student Paper Contest <i>Salon III</i>

***All paper and poster judges please have completed score sheets to Matthew Wiggins by 5:00 p.m. on Tuesday**

2:30 p.m. – 4:30 p.m.	New Technologies <i>Salons III & IV</i>
2:30 p.m. – 4:00 p.m.	Forest Vegetation Management <i>Bienvenue</i>
2:00 p.m. – 2:30 p.m.	Soil and Environmental Aspects of Weed Science <i>Bistineau</i>

TUESDAY, January 24, 2023

- 3:00 p.m. – 3:30 p.m. Educational Aspects of Weed Control
Bistineau
- 4:00 p.m. – 4:30 p.m. Weed Management in Pastures & Rangeland
Bienvenue

WEDNESDAY, January 25, 2023

- 7:00 a.m. – 10:00 a.m. Poster Removal
Posters removed before 10:00 a.m.
- 7:30 a.m. – 11:30 a.m. Weed Management in Agronomic Crops
Salon II
- 8:00 a.m. – 10:45 a.m. Weed Management in Turf
Salon III
- 10:00 a.m. – 10:45 a.m. Weed Biology and Ecology
Bienvenue
- 11:00 a.m. – 11:45 a.m. Weed Management in Horticultural Crops
Bienvenue
- 8:00 a.m. – 8:15 a.m. Physiological and Biological Aspects of Weed Control
Des Glaises
- 8:30 a.m. – 8:45 a.m. Invasive Plant Species
Des Glaises
- 9:00 a.m. – 9:15 a.m. Weed Management in Organic Production Systems
Des Glaises
- 2:00 p.m. – 5:00 p.m. Weed Management in Agronomic Crops
Salon I

THURSDAY, January 26, 2023

- 7:00 a.m. – 10:00 a.m. SWSS Executive Board Breakfast & Meeting
Cocodrie
- 8:00 a.m. – 10:00 a.m. Local Arrangements
Des Cannes

PROGRAM

MONDAY AFTERNOON JANUARY 23

Poster Section

LOCATION: Salon I
MODERATOR: Pratap Devkota
University of Florida
Jay, FL

***PRESENTER † STUDENT CONTEST**

†Development of Trifludimoxazin for Use in Peanut. C Abbott*, EP Prostko; University of Georgia, Tifton, GA (1)

Relative Soybean Response from 4 Auxin Herbicides Applied POST. TC Mueller*¹, L Steckel²; ¹University of Tennessee, Knoxville, TN, ²University of Tennessee, Jackson, TN (2)

†Cover Crop Residue Amount Influences Weed Seed Suppression. A Kumari*¹, S Li¹, AJ Price²; ¹Auburn University, Auburn, AL, ²USDA-ARS, Auburn, AL (3)

Crop Response and Weed Control in Field Corn with Emyros™ and Shieldex® With/Without Counter®. EP Prostko*, C Abbott, NJ Shay; University of Georgia, Tifton, GA (4)

†Seed Retention and Removal of Palmer Amaranth and Waterhemp During Cotton Harvest. SA Chu*¹, BM McKnight², G Morgan³, MJ Walsh⁴, MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Texas A&M Agrilife Extension, College Station, TX, ³Cotton Incorporated, Cary, NC, ⁴Sydney University, Sydney, Australia (5)

Evaluation of Pyroxasulfone for Control of Italian Ryegrass (*Lolium perenne* L. Ssp. *multiflorum*) in Kentucky Winter Wheat. T Legleiter*; University of Kentucky, Princeton, KY (6)

†**Growth Characteristics of Johnsongrass as Influenced by CO₂, Temperature, Soil Moisture, and Herbicide Stress Factors.** VC Tyagi*, A Maity, NK Subramanian, MV Bagavathiannan; Texas A&M University, College Station, TX (7)

Effectiveness of Salvage Herbicide Programs for Weed Management (Particularly on Glyphosate-Resistant Palmer Amaranth) Programs and Possible Yield Reduction in Cotton Resistant to Glyphosate and Glufosinate. T Bararpour*; Mississippi State University, Stoneville, MS (8)

†**Influence of Carrier Water pH and Hardness on Paraquat and Imazapic Efficacy for Spiderwort Control.** OS Daramola*¹, P Devkota², GE MacDonald³, R Kanissery⁴, BL Tillman⁵, H Singh²; ¹University of Florida/IFAS, Jay, FL, ²University of Florida, Jay, FL, ³University of Florida, Gainesville, FL, ⁴University of Florida/IFAS, Immokalee, FL, ⁵University of Florida, Marianna, FL (9)

One-Pass Weed Management Programs in Mississippi Corn. T Bararpour*; Mississippi State University, Stoneville, MS (10)

†**Evaluation of Preemergence Herbicides for Purple Nutsedge Control in Florida Strawberry Production.** R Tiwari*¹, N Boyd², P Roberts¹, SH Daroub³, R Kanissery⁴; ¹University of Florida/Southwest Florida Research and Education Center, Immokalee, FL, ²University of Florida/Gulf Coast Research and Education Center, Balm, FL, ³University of Florida/Everglades Research and Education Center, Everglades, FL, ⁴University of Florida/IFAS, Immokalee, FL (11)

Effect of Low Rate of Dicamba on Tomato at Different Growth Stages. T Bararpour*¹, T Tseng²; ¹Mississippi State University, Stoneville, MS, ²Mississippi State University, Starkville, MS (12)

†**Paraquat-resistant Ryegrass (*Lolium perenne* L. spp. *multiflorum*) Confirmed in North Carolina.** JH de Sanctis*, CW Cahoon, W Everman, T Gannon; North Carolina State University, Raleigh, NC (13)

Corn Response to Reduced Rates of Reviton. D Miller*¹, T Barber², J Bond³, DO Stephenson, IV⁴, AM

Barfield¹; ¹Louisiana State University AgCenter, St Joseph, LA, ²University of Arkansas, Lonoke, AR, ³Mississippi State University, Stoneville, MS, ⁴Louisiana State University AgCenter, Alexandria, LA (14)

†**Gene Copy Number Comparison Across Years: Glufosinate Survivors Vs. Sensitive Palmer Amaranth Plants.** P Carvalho-Moore*¹, JK Norsworthy¹, F Gonzalez Torralva¹, LB Piveta¹, MC Souza¹, T Barber², TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (15)

Cotton Response to Reduced Rates of Reviton. D Miller*¹, T Barber², J Bond³, DO Stephenson, IV⁴, AM Barfield¹; ¹Louisiana State University AgCenter, St Joseph, LA, ²University of Arkansas, Lonoke, AR, ³Mississippi State University, Stoneville, MS, ⁴Louisiana State University AgCenter, Alexandria, LA (16)

†**Multiple Herbicide Resistance in a Walter's Barnyardgrass (*Echinochloa walteri*) Population from Texas.** TT Mundt*, G Elizarraras, I Ceperkovic, I Ceperkovic, MV Bagavathiannan, NK Subramanian; Texas A&M University, College Station, TX (17)

Sweetpotato Response to Reduced Rates of Liberty Plus 2,4-D Choline. D Miller*, AM Barfield; Louisiana State University AgCenter, St Joseph, LA (18)

†**Alternatives to Glyphosate for Preplant Weed Control.** WJ Stutzman*, EC Russell, K Bamber, ML Flessner; Virginia Tech, Blacksburg, VA (19)

Absorption, Translocation, and Metabolism of 2,4-D in Resistant Palmer Amaranth (*Amaranthus palmeri* S. Wats.). J Hwang*¹, JK Norsworthy¹, LB Piveta¹, MC Souza¹, T Barber², TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (20)

†**Characterization of Herbicide Injury in Cotton Using an Unmanned Aerial System.** U Torres*¹, J Johnson¹, BB Sapkota¹, SA Nolte², MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Texas A&M AgriLife Extension, College Station, TX (21)

Corteva New Residual Herbicide for PRE and POST Application in Soybean and Cotton. KA Backscheider*¹, DM Simpson², M Lovelace³, D Ellis⁴; ¹Corteva Agriscience, Franklin, IN, ²Corteva Agriscience, Indianapolis,

IN, ³Corteva Agriscience, Newcastle, OK, ⁴Corteva agriscience - IFS, Arlington, TN (22)

†**Differential Effects of Shading on Hydrilla (*Hydrilla verticillata*) and Native Submersed Aquatic Species.** CM Prince¹, J Ferrell¹, BP Sperry², DC Canfield*¹; ¹University of Florida, Gainesville, FL, ²US Army Corps of Engineers, Gainesville, FL (23)

Reproductive Characteristics of Johnsongrass as Influenced by CO₂, Temperature, Soil Moisture, and Herbicide Stress Factors. VC Tyagi*, A Maity, NK Subramanian, MV Bagavathiannan; Texas A&M University, College Station, TX (24)

†**Yellow Nutsedge Tuber Production and Viability in Response to Postemergence Herbicides.** E Begitschke*, C Wang, AA Young, KA Tucker, GM Henry; University of Georgia, Athens, GA (25)

Impact of Cover Crop and Planting Date on Palmer Amaranth Emergence in Furrow-irrigated Rice. TA King*, JK Norsworthy, LB Piveta, CT Arnold; University of Arkansas, Fayetteville, AR (26)

†**Fertility Impacts the Competitive Response of Common Lawn Weeds with Bermudagrass.** C Wang*¹, E Begitschke¹, AA Young¹, KA Tucker¹, GM Henry¹, JD McCurdy², D Held³; ¹University of Georgia, Athens, GA, ²Mississippi State University, Starkville, MS, ³Auburn University, Auburn, AL (27)

Soybean Response to Volatility of 2,4-D and Dicamba in Humidome. E Gomiero Polli*, T Gannon, R Rogers, M LeCompte, K Ahmed; North Carolina State University, Raleigh, NC (28)

†**Biological Nitrification Inhibition Potential Improves Nitrogen Availability in Johnsongrass (*Sorghum halepense*).** ML Schill*, N Rajan, D Phuyal, G Elizarraras, S Antony-Babu, NK Subramanian, MV Bagavathiannan; Texas A&M University, College Station, TX (29)

Deposition Characteristics of Targeted Application Devices in Managed Turf. JM Peppers*, S Askew; Virginia Tech, Blacksburg, VA (30)

†**Reproductive and Seed Trait Diversity of *Poa annua* L. Populations Across a Geographical Gradient in the**

United States. AW Osburn*¹, MV Bagavathiannan¹, JS McElroy², BC McNally³, J Brosnan⁴, JW Taylor⁵, LB McCarty⁵, V Vukovic⁶, A Patton⁶, J Harris², J Vargas⁷, M Elmore³, A Kowalewski⁸, C Mattox⁸; ¹Texas A&M University, College Station, TX, ²Auburn University, Auburn, AL, ³Rutgers University, New Brunswick, NJ, ⁴University of Tennessee, Knoxville, TN, ⁵Clemson University, Clemson, SC, ⁶Purdue University, West Lafayette, IN, ⁷University of Tennessee, Knoxville, TN, ⁸Oregon State University, Corvallis, OR (31)

Does PRE Herbicide Timing Affect the Control of Foxtail Species (*Setaria* Spp.) in Southern Forages? NT Basinger*, C Bocz, HC Lindell, S Shome; University of Georgia, Athens, GA (32)

†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 (33)

Palmer Amaranth Management in Sorghum with Postemergence Herbicide Combinations. CR White*, W Keeling; Texas A&M AgriLife Research, Lubbock, TX (34)

†Fitness Comparison of F₁ Progeny Ploidy Types in *Sorghum bicolor* x *S. halepense* Hybrids. UR Pedireddi*, R Afshang, M Chung, NK Subramanian, G Hodnett, W Rooney, MV Bagavathiannan; Texas A&M University, College Station, TX (35)

Using Unmanned Aerial System to Quantify Impact of Herbicide Drift on Peanut. P Devkota*¹, N Singh¹, JE Iboyi²; ¹University of Florida, Jay, FL, ²University of Florida/IFAS, Jay, FL (36)

†Integration of Cover Crop and Preemergence Herbicide for Early Season Weed Control in Cotton. YR Upadhyaya*¹, P Devkota²; ¹University of Florida, Gainesville, FL, ²University of Florida, Jay, FL (37)

Control of Common Ragweed (*Ambrosia artemisiifolia*) and Sicklepod (*Senna obtusifolia*) with Dicamba and Glufosinate. EA Jones*, DJ Contreras, CW Cahoon, RG Leon, W Everman; North Carolina State University, Raleigh, NC (38)

†Evaluation of Spray Droplet Size for UAV Applications. AA Tavares*¹, DM Dodds¹, J Golus², B

Vukoja², GR Kruger³; ¹Mississippi State University, Starkville, MS, ²University of Nebraska-Lincoln, North Platte, NE, ³BASF, Raleigh, NC (39)

Effect of Tank-mix Sicklepod Extract and Herbicide Application on Weed Control and Deer Management in Soybean. Z Yue*¹, K Beneton², D Augusto¹, CA Snoddy¹, MW Shankle¹, T Tseng¹; ¹Mississippi State University, Starkville, MS, ²Oklahoma State University, Oklahoma, OK (40)

Effect of Nitrogen Rate and Preemergence Herbicide on Weed Control in Industrial Hemp. S Mathew*¹, P Devkota¹, YR Upadhyaya², S Regmi¹, OS Daramola³, N Singh¹; ¹University of Florida, Jay, FL, ²University of Florida, Gainesville, FL, ³University of Florida/IFAS, Jay, FL (41)

Volatility Reduction Agents Influence on Dicamba and Glyphosate Spray Solution pH, Droplet Dynamics, and Weed Control. K Kouame*¹, TR Butts¹, R Werle², WG Johnson³; ¹University of Arkansas, Lonoke, AR, ²University of Wisconsin-Madison, Madison, WI, ³Purdue University, West Lafayette, IN (42)

Control of ALS- and PPO-inhibiting Herbicide-resistant Redroot Pigweed (*Amaranthus retroflexus*) Populations with Common Postemergence Herbicides. EA Jones*, DJ Contreras, CW Cahoon, RG Leon, W Everman; North Carolina State University, Raleigh, NC (43)

The Efficacy and Synergistic Effect of Allelocompounds (Coumarin and Chlorogenic Acid) with Glyphosate-Resistant Palmer Amaranth. AL Miller*, T Tseng, V Varsha, JC Argenta, Z Yue, W Segbefia, TR de Oliveira, NA Maphalala; Mississippi State University, Starkville, MS (44)

Use of a Fenclorim Seed Treatment to Safen Wheat to Metolachlor. SC Noe*¹, JK Norsworthy², TH Avent², NH Reed², CT Arnold², TR Butts³; ¹University of Arkansas, Fayetteville, KY, ²University of Arkansas, Fayetteville, AR, ³University of Arkansas, Lonoke, AR (45)

Influence of Adjuvants on Hexazinone Efficacy for Smutgrass Control. S Regmi*¹, P Devkota¹, BA Sellers², J Dubeux Jr³, CA R. Sales², S Mathew¹, OS Daramola⁴; ¹University of Florida, Jay, FL, ²University of

Florida, Ona, FL, ³University of Florida, Mariana, FL, ⁴University of Florida/IFAS, Jay, FL (46)

Weed Management in Corn without Atrazine. LN Vallee*¹, DO Stephenson, IV¹, C Webster²; ¹Louisiana State University AgCenter, Alexandria, LA, ²Louisiana State University AgCenter, Baton Rouge, LA (47)

Comparison of POST Applied Topramezone and Mesotrione with and without Atrazine for Weed Management in Corn. SB Stoker*¹, DO Stephenson, IV¹, C Webster²; ¹Louisiana State University AgCenter, Alexandria, LA, ²Louisiana State University AgCenter, Baton Rouge, LA (48)

The Quest for Selective Thermal Weed Control in Managed Turf System. N Godara*, S Askew, CG Goncalves; Virginia Tech, Blacksburg, VA (49)

Prickly Sida Control in Cotton and Soybean. JL Reeves*, L Steckel; University of Tennessee, Jackson, TN (50)

Weed-suppressing Potential of Sweetpotato Varieties Under Field Conditions. V Varsha*¹, W Segbefia¹, Z Yue¹, P Sharma¹, CJ Morris², MW Shankle¹, T Tseng¹; ¹Mississippi State University, Starkville, MS, ²Mississippi State University, Pontotoc, MS (51)

Organic Chemicals for Non-selective Weed Control in Dormant Turf. D Koo*¹, CG Goncalves², S Askew¹; ¹Virginia Tech, Blacksburg, VA, ²University of California-Riverside, Ukiah, CA (52)

Root System Architectural Traits Associated with Allelopathic Cotton. W Segbefia*, V Varsha, NA Maphalala, TR De Oliveira, T Tseng; Mississippi State University, Starkville, MS (53)

Deer Repellent and Bioinsecticidal Property of Weed Extracts. Z Yue*, CA Snoddy, P Sharma, TR de Oliveira, W Segbefia, MW Shankle, T Tseng; Mississippi State University, Starkville, MS (54)

Improved Herbicide Selectivity in Tomato by Safening Action of Benoxacor, Fenclorim, Melatonin, and 2,4, 6-Trichlorophenoxyacetic Acid. TR De Oliveira*, AA Tavares, V Varsha, Z Yue, JC Argenta, T Tseng; Mississippi State University, Starkville, MS (55)

Weed Management with Axant™ Flex Cotton System. ZR Treadway*¹, J Dudak¹, TA Baughman¹, AC Hixson², G Baldwin³; ¹Oklahoma State University, Ardmore, OK, ²BASF, Lubbock, TX, ³BASF, Research Triangle Park, NC (56)

Effect of Iron on *Eichhornia crassipes* and *Pistia stratiotes* Competition. EJ Littler*; University of Florida Center for Aquatic and Invasive Plants, Gainesville, FL (57)

Extended Barnyardgrass Control on a Silt Loam Soil Using Clomazone and Oxyfluorfen Mixtures. TC Smith*¹, JK Norsworthy¹, CH Arnold¹, MC Souza¹, TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (58)

Investigating Herbicide Safety on North Carolina Wildflowers. JH Lee*; North Carolina state university, Raleigh, NC (59)

White Clover Tolerance to Spring and Summer-Applied Forage Herbicides. DP Russell*¹, K Mullenix², G Thompson¹; ¹Auburn University, Madison, AL, ²Auburn University, Auburn, AL (60)

Common Carpetgrass Tolerance to Postemergence Herbicides. AA Young*¹, E Begitschke¹, C Wang¹, KA Tucker¹, GM Henry¹, AL Wilber², JD McCurdy²; ¹University of Georgia, Athens, GA, ²Mississippi State University, Starkville, MS (61)

Utility of Alite 27 Combinations Across the Cotton Belt. J Dudak*¹, ZR Treadway¹, TA Baughman¹, G Baldwin², T Barber³, J Bond⁴, CW Cahoon⁵, A Culpepper⁶, PA Dotray⁷, W Keeling⁸, S Li⁹, MW Marshall¹⁰, R Noland¹¹, SA Nolte¹², L Steckel¹³, DO Stephenson, IV¹⁴, M Smith¹⁵; ¹Oklahoma State University, Ardmore, OK, ²BASF, Research Triangle Park, NC, ³University of Arkansas, Lonoke, AR, ⁴Mississippi State University, Stoneville, MS, ⁵North Carolina State University, Raleigh, NC, ⁶University of Georgia, Tifton, GA, ⁷Texas Tech University and Texas A&M AgriLife Research & Extension, Lubbock, TX, ⁸Texas A&M AgriLife Research, Lubbock, TX, ⁹Auburn University, Auburn, AL, ¹⁰Clemson University, Blackville, SC, ¹¹Texas A&M University, San Angelo, TX, ¹²Texas A&M AgriLife Extension, College Station, TX, ¹³University of Tennessee, Jackson, TN, ¹⁴Louisiana State University AgCenter, Alexandria, LA, ¹⁵Texas Tech University, Lubbock, TX (62)

Evaluation of Biological Nitrification Inhibition (BNI) Potential in Cover Crops. NK Subramanian*, N Rajan, S Antony Babu, TT Mundt, D Phuyal, ML Schill, MV Bagavathiannan; Texas A&M University, College Station, TX (63)

TamArk™ Grain Sorghum: an Evaluation of Sensitivity to ACCase-Inhibiting Herbicides Across Multiple Environments. D Hathcoat*¹, JA Fleming², D Crozier¹, W Rooney³, JK Norsworthy², MV Bagavathiannan³; ¹Texas A&M AgriLife Research, College Station, TX, ²University of Arkansas, Fayetteville, AR, ³Texas A&M University, College Station, TX (64)

Glyphosate and ALS-inhibitor Resistance Levels in Selected Palmer Amaranth Populations in South Carolina. MB Williams*, MW Marshall; Clemson University, Blackville, SC (65)

†**Comparing Cotton Tolerance and Residual Control of Palmer Amaranth When Using Loyant-Coated Fertilizer Applied at Various Growth Stages.** SL Pritchett*¹, JK Norsworthy¹, M Zaccaro-Gruener¹, MC Castner¹, D Smith¹, T Barber²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (66)

Effect of Adjuvants on Development and Formation of Arrested Ear Syndrome. RJ Edwards*¹, LA Boles¹, GK Dahl²; ¹WinField United, River Falls, WI, ²Winfield United, Eagan, MN (67)

†**Evaluating the Control of Italian Ryegrass (*Lolium perenne* spp. *Multiflorum*) Using Chaff Lining in Winter Wheat at Harvest.** HS Love*¹, T Legleiter²; ¹University of Kentucky, Lexington, KY, ²University of Kentucky, Princeton, KY (68)

Chemical Conversion of a Hybrid Bermudagrass Fairway to Zoysiagrass. E Begitschke*, C Wang, AA Young, KA Tucker, GM Henry; University of Georgia, Athens, GA (69)

†**Impact of Weedy Rice Size on Control with Oxyfluorfen.** CH Arnold*¹, JK Norsworthy¹, MC Souza¹, TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (70)

Biochemical Mechanisms of Melatonin as a 2,4-D Safener. JC Argenta*¹, FE Dayan², T Tseng¹; ¹Mississippi

State University, Starkville, MS, ²Colorado State University, Fort Collins, CO (71)

†**Tolerance of Rice Cultivars to Preemergence**

Application of Fluridone. MC Souza*¹, JK Norsworthy¹, SL Pritchett¹, T Barber², TR Butts², MC Woolard¹; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (72)

Tolerance and Grass Control with Fluazifop and

Quizalofop in TamArk Grain Sorghum. MC Castner*¹, JK Norsworthy¹, MV Bagavathiannan², JA Fleming¹; ¹University of Arkansas, Fayetteville, AR, ²Texas A&M University, College Station, TX (73)

†**Confirmation and Control of Atrazine-resistant Palmer**

Amaranth (*Amaranthus palmeri*) in North Carolina. RJ Argueta*, EA Jones, DJ Contreras, CW Cahoon, W Everman; North Carolina State University, Raleigh, NC (74)

Utilization of the See and Spray™ Ulimat Technology

with Cover Crops in Cotton. TH Avent*¹, JK Norsworthy¹, TC Smith¹, WL Patzoldt², LM Lazaro², MM Houston³; ¹University of Arkansas, Fayetteville, AR, ²Blue River Technology, Sunnyvale, CA, ³Blue River Technology, Leland, MS (75)

†**Differentiation Between Yellow foxtail (*Setaria pumilla*)**

and Knotroot Foxtail (*Setaria parviflora*) Via Morphological Characteristics and Genetics Markers. MM Joseph*, JS McElroy, J Platel, CA Rutland; Auburn University, Auburn, AL (76)

Qualitative and Quantitative Analyses by HPLC of Dicamba Residues in Leaves, Fruits, and Roots of Tomato Plants Treated with Low Rates of Dicamba at Different Growth Stages. TR De Oliveira*¹, Z Yue¹, AL Miller¹, T Bararpour², T Tseng¹; ¹Mississippi State University, Starkville, MS, ²Mississippi State University, Stoneville, MS (77)

†**Palmer Amaranth Residual Control in Soybean with a**

Diffenican Mixture Compared to Current Standards. MC Woolard*¹, JK Norsworthy¹, LB Piveta¹, TH Avent¹, TC Smith¹, TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (78)

Crop and Weed Identification Using Machine

Learning. D Srivastava*, V Singh; Virginia Tech, Painter, VA (79)

†Nozzle Selection and Drill Row Width Effects on Spray Coverage and Weed Management in Flooded Rice.

NH Reed*¹, TR Butts², JK Norsworthy¹, J Hardke³, T Barber², J Bond⁴, HD Bowman⁵, BM Davis², T Dillon², K Kouame²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR, ³University of Arkansas, Stuttgart, AR, ⁴Mississippi State University, Stoneville, MS, ⁵Mississippi State University, Starkville, MS (80)

Narrow-windrow Burning for Controlling Italian Ryegrass in Wheat and Palmer Amaranth in Soybean.

ML Flessner*¹, MP Spoth¹, SC Haring², W Everman³, C Reberg-Horton³, WC Greene¹; ¹Virginia Tech, Blacksburg, VA, ²University of California-Davis, Davis, CA, ³North Carolina State University, Raleigh, NC (81)

†Effective Anthraquinone Derivative Dose; a Weed-based Deer Repellent for Soybean.

NA Maphalala*, Z Yue, T Tseng; Mississippi State University, Starkville, MS (82)

Effect of Simulated Drift Rates of Reviton (Tiafenacil) on Rice and Soybean.

LM Collie*¹, TR Butts¹, T Barber¹, J Bond², D Miller³, K Kouame¹, NH Reed⁴, BM Davis¹, L Adams⁵, DO Stephenson, IV⁶, C Webster⁷, L Steckel⁸; ¹University of Arkansas, Lonoke, AR, ²Mississippi State University, Stoneville, MS, ³Louisiana State University AgCenter, St Joseph, LA, ⁴University of Arkansas, Fayetteville, AR, ⁵Mississippi State University, Starkville, MS, ⁶Louisiana State University AgCenter, Alexandria, LA, ⁷Louisiana State University AgCenter, Baton Rouge, LA, ⁸University of Tennessee, Jackson, TN (83)

†Florpyrauxifen-benzyl & Aminopyralid Yield Impacts on Warm-Season Forages.

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 (84)

Influence of Seed Impact Mills on Combine Horsepower Needs, Fuel Use, and Speed During Soybean Harvest.

EC Russell*, ML Flessner, MP Spoth, K Bamber; Virginia Tech, Blacksburg, VA (85)

†**Target-site Mutations in ALS-inhibitor-resistant Jungle Rice (*Echinochloa colona*).** H Camci Arik*, TT Mundt, MV Bagavathiannan, NK Subramanian; Texas A&M University, College Station, TX (86)

Controlling Larger Than Labeled Palmer Amaranth with the Enlist and Xtendflex Systems. K Bamber*, ML Flessner; Virginia Tech, Blacksburg, VA (87)

†**Residual Herbicide Timings with the Xtend Soybean System.** K Beneton*, JL Dudak, ZR Treadway, TA Baughman; Oklahoma State University, Ardmore, OK (88)

Graduate Course Instruction in Weed Science in the SWSS. T Mueller*¹, JD Byrd, Jr.²; ¹University of Tennessee, Knoxville, TN, ²Mississippi State University, Starkville, MS (89)

†**Evidence of Soil Temperature and Moisture Alteration as a Mechanism of Weed Suppression by Cereal Rye Cover Crop.** G Camargo Silva*, MV Bagavathiannan; Texas A&M University, College Station, TX (90)

Adjuvant Effects on Herbicide Performance. SC Baker*, DM Dodds, CK Meyer, GA Stephens, AA Tavares, JA Patterson; Mississippi State University, Starkville, MS (91)

†**Dicamba Cotton Technology Provides Flexibility Georgia Growers Value.** JC Vance*, A Culpepper, TM Randell-Singleton; University of Georgia, Tifton, GA (92)

Overlapping Residual Herbicides for Season Long Weed Control in Soybean (*Glycine max*). CK Meyer*¹, DM Dodds¹, GA Stephens¹, SC Baker¹, JA Patterson¹, A Correa Tavares²; ¹Mississippi State University, Starkville, MS, ²University of Nebraska-Lincoln, North Platte, NE (93)

†**Volunteer Rapeseed Infestation in Corn and its Management.** V Kumar*¹, V Singh¹, ML Flessner²; ¹Virginia Tech, Painter, VA, ²Virginia Tech, Blacksburg, VA (94)

Is the Biological Response of Purple and Yellow Nutsedge Altered by Elevated CO₂ and High Temperatures? KN Reddy*, S Pinnamaneni; USDA-ARS, Stoneville, MS (95)

MONDAY AFTERNOON JANUARY 23

General Session

LOCATION: Salons II, III & IV
TIME: 1:00 PM - 5:15 PM CST
MODERATOR: Eric Castner
FMC
Pauls Valley, OK

01:00 PM Welcome / Announcements- Eric Castner
FMC, Pauls Valley, OK

01:05 PM Welcome to Louisiana! Dr. Michael Salassi
Associate Vice President and Program Leader
Plant and Animal Sciences
Louisiana State University

01:15 PM Keynote Address - Dr. Steve Linscombe
Director - The Rice Foundation & Leadership
Class Program
Professor Emeritus, Louisiana State University

01:45 PM Presidential Address - DM Dodds
Mississippi State University, Starkville, MS

02:00 PM Impact of the Endangered Species Act.

Dr. Todd Baughman

Professor and Weed Scientist
Oklahoma State University

Randy Rush

Senior Agriculture Policy Advisor US
EPA Region 6

Dr. Mike Strain

Commissioner
Louisiana Department of Agriculture

John Walt Boatright

Director of Government Affairs American
Farm Bureau Federation

Jeff Smith

Manager of Government and Stakeholder
Relations
Valent U.S.A. LLC

Dr. Stanley Culpepper
Extension Weed Scientist
University of Georgia

03:30 PM Break

04:00 PM Washington Policy Update. L Van Wychen
Weed Science Society of America, Alexandria,
VA

**04:30 PM 2022 SWSS Endowment Enrichment
Scholarship Presentation.** MC Castner
University of Arkansas, Fayetteville, AR

**04:45 PM 2022 SWSS Endowment Enrichment
Scholarship Presentation.** JM Peppers
Virginia Tech, Blacksburg, VA

**05:00 PM 2022 SWSS Endowment Enrichment
Scholarship Presentation.** EC Russell
Virginia Tech, Blacksburg, VA

TUESDAY MORNING JANUARY 24

Graduate Student Oral Presentation Contest

LOCATION: Bienvenue

TIME: 8:00 AM - 12:00 PM CST

MODERATOR: Joey Williams
Bayer CropScience
Union City, TN

***SPEAKER † STUDENT CONTEST**

**08:00 AM †Rainfall Activation Requirements for PRE
Applied Soybean (*Glycine max*)
Herbicides.** CK Meyer*¹, GA Stephens¹, SC
Baker¹, JA Patterson¹, A Correa Tavares², DM
Dodds¹; ¹Mississippi State University,
Starkville, MS, ²University of Nebraska-
Lincoln, North Platte, NE (96)

**08:15 AM †Factors Influencing Effectiveness of Cover
Crops for Weed Suppression in Soybean.** W

Reiter*¹, DP Russell²; ¹Auburn University, Auburn, AL, ²Auburn University, Madison, AL (97)

- 08:30 AM** †**Survey of Palmer Amaranth Resistance in South Carolina.** MB Williams*, MW Marshall; Clemson University, Blackville, SC (98)
- 08:45 AM** †**Weed Suppression by Cotton Chromosome Substitution Lines at Different Cover Crop Production Systems.** AL Miller*, T Tseng, JC Argenta, Z Yue, V Varsha, NA Maphalala, W Segbefia, TR de Oliveira, GA Fuller; Mississippi State University, Starkville, MS (99)
- 09:00 AM** †**Preemergence Control of *Amaranthus palmeri* with Isoxaflutole Combinations.** M Smith*¹, PA Dotray², AC Hixson³; ¹Texas Tech University, Lubbock, TX, ²Texas Tech University and Texas A&M AgriLife Research & Extension, Lubbock, TX, ³BASF, Lubbock, TX (100)
- 09:15 AM** †**Penetration of Residual Soybean (*Glycine max* L.) Herbicides into Cover Crop Stands.** SC Baker*, DM Dodds, CK Meyer, GA Stephens, AA Tavares, JA Patterson; Mississippi State University, Starkville, MS (101)
- 09:30 AM** †**Estimating Weed Density and Potential Yield Reduction in Soybean Using Machine Learning.** D Srivastava*, V Singh, V Kumar; Virginia Tech, Painter, VA (102)
- 09:45 AM** †**Response of Stevia (*Stevia rebaudiana*) to Herbicides Applied Post.** SJ Ippolito*¹, KM Jennings¹, DW Monks¹, DL Jordan¹, S Chaudhari², LD Moore¹; ¹North Carolina State University, Raleigh, NC, ²Michigan State University, East Lansing, MI (103)
- 10:00 AM** **Break**
- 10:15 AM** †**Effect of Three Cultivation Regimes on Weed Control and Sweetpotato Cultivar Yield and Quality.** CD Blankenship*¹, KM

Jennings¹, DW Monks¹, DL Jordan¹, SL Meyers², J Schultheis¹, DH Suchoff¹, LD Moore¹; ¹North Carolina State University, Raleigh, NC, ²Purdue University, West Lafayette, IN (104)

- 10:30 AM** †**In-Water Activity of Glyphosate, 2,4-D, and Diquat on Waterhyacinth (*Eichhornia crassipes*).** HJ Brown*¹, BP Sperry², CM Prince³, J Ferrell³; ¹University of Florida Center for Aquatic and Invasive Plants, Gainesville, FL, ²US Army Corps of Engineers, Gainesville, FL, ³University of Florida, Gainesville, FL (105)
- 10:45 AM** †**Bahiagrass Response and Smutgrass Control with Hexazinone Co-applied with Liquid Urea Ammonium Nitrate.** S Regmi*¹, P Devkota¹, BA Sellers², J Dubeux Jr³, CA R. Sales², S Mathew¹, OS Daramola⁴; ¹University of Florida, Jay, FL, ²University of Florida, Ona, FL, ³University of Florida, Mariana, FL, ⁴University of Florida/IFAS, Jay, FL (106)
- 11:00 AM** †**Improved Herbicide Selectivity in Tomato by Safening Action of Benoxacor, Fenclorim, Melatonin, and 2,4, 6-Trichlorophenoxyacetic Acid.** TR De Oliveira*, AA Tavares, V Varsha, Z Yue, JC Argenta, T Tseng; Mississippi State University, Starkville, MS (107)
- 11:15 AM** †**Evaluation of Choline Triclopyr, Imazapyr and Glyphosate Hack and Squirt Applications for Control of Undesirable Midstory Hardwood Species in the Georgia Piedmont.** AJ Swafford*¹, DC Clabo²; ¹University of Georgia, Athens, GA, ²University of Georgia, Tifton, GA (108)
- 11:30 AM** †**Evaluating the Spray Patterns Produced by Four Boomless Nozzles at Varying Speeds.** TH Duncan*, JD Byrd, Jr., KL Broster; Mississippi State University, Starkville, MS (109)

TUESDAY MORNING JANUARY 24

Graduate Student Oral Presentation Contest

LOCATION: Salon II
TIME: 7:30 AM – 11:30 AM CST

MODERATOR: Chris Leon
FMC
Madison, MS

***SPEAKER † STUDENT CONTEST**

- 07:30 AM † Isoxaflutole Tank Mixtures Efficacy on Volunteer Peanut and Weed Control.** L Pereira*, S Li, RD Langemeier, JT McCaghren; Auburn University, Auburn, AL (110)
- 07:45 AM † Managing Paraquat-Resistant Italian Ryegrass with Cover Crops and Fall Residuals.** JH de Sanctis*, CW Cahoon, W Everman, T Gannon; North Carolina State University, Raleigh, NC (111)
- 08:00 AM † Glyphosate Formulations Influence Weed Control in Adverse Environmental Conditions.** N Godara*, S Askew, CG Goncalves; Virginia Tech, Blacksburg, VA (112)
- 08:15 AM † Crabgrass and Texas Panicum Control with Group 15 Herbicides Applied Preemergence.** L Pereira*, S Li, RD Langemeier, JT McCaghren; Auburn University, Auburn, AL (113)
- 08:30 AM † Evaluation of Residual Herbicide Programs in Soybean.** ZR Treadway*, J Dudak, TA Baughman; Oklahoma State University, Ardmore, OK (114)
- 08:45 AM † Effects of a Winter Cover Crop on Weed Competition for Nitrogen with Corn.** C Sias*, S Pokhrel, ML Flessner, WE

Thomason, R Maguire, K Bamber, C Bishop;
Virginia Tech, Blacksburg, VA (115)

- 09:00 AM** †**Determining Grain Sorghum Susceptibility to Simulated Carryover Applications of Terbacil and Fomesafen.** NJ Shay*, EP Prostko; University of Georgia, Tifton, GA (116)
- 09:15 AM** †**Investigating Novel Application Methods to Mitigate Auxin + Graminicide Herbicide Antagonism.** JA Patterson*, DM Dodds, AA Tavares, CK Meyer, SC Baker, GA Stephens; Mississippi State University, Starkville, MS (117)
- 09:30 AM** †**Confirmation of a Glufosinate-resistant Palmer Amaranth (*Amaranthus palmeri*) Population in North Carolina.** EA Jones*, J Dunne, DJ Contreras, CW Cahoon, KM Jennings, RG Leon, W Everman; North Carolina State University, Raleigh, NC (118)
- 09:45 AM** †**Utilization of Herbicides and Hormones as Gametocides for Reproductive Suppression of Palmer Amaranth (*Amaranthus palmeri*).** SE Kezar*¹, NK Subramanian¹, G Morgan², MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Cotton Incorporated, Cary, NC (119)
- 10:00 AM** **Break**
- 10:15 AM** †**Alternative Herbicide Options for Paraquat in Treatments Targeting Palmer Amaranth (*Amaranthus palmeri*).** GA Mangialardi*¹, J Bond², TW Eubank³, TD Burrell II²; ¹Mississippi State University, Shelby, MS, ²Mississippi State University, Stoneville, MS, ³Mississippi State University, Greenville, MS (120)

- 10:30 AM** †**Allelopathic Effects of Cotton Chromosome Substitution Lines Against Glyphosate-resistant Palmer Amaranth in Field Conditions.** W Segbefia*¹, V Varsha¹, NA Maphalala¹, Z Yue¹, TR De Oliveira¹, T Garrett², P Sharma¹, MW Shankle¹, T Tseng¹; ¹Mississippi State University, Starkville, MS, ²Mississippi State University, Pontotoc, MS (121)
- 10:45 AM** †**Herbicide Program Impact on Population Dynamics of Palmer Amaranth (*Amaranthus palmeri*) in Long-Term Cover Crops and Living Mulch.** HC Lindell*¹, D Weisberger¹, G Morgan², C Bocz¹, NT Basinger¹; ¹University of Georgia, Athens, GA, ²Cotton Incorporated, Cary, NC (122)
- 11:00 AM** †**Impact of Chaff Flow Rate on Redekop Seed Control Unit's Seed Kill and Horsepower Draw in Wheat and Soybean.** EC Russell*¹, ML Flessner¹, MP Spoth¹, K Bamber¹, C Sias², WJ Stutzman¹; ¹Virginia Tech, Blacksburg, VA, ²Texas A&M University, College Station, TX (123)
- 11:15 AM** †**Interaction of See & Spray™ Model Sensitivity and Application Timing in Cotton.** TH Avent*¹, JK Norsworthy¹, MC Woolard¹, WL Patzoldt², LM Lazaro², MM Houston³, W Everman⁴, DJ Contreras⁴; ¹University of Arkansas, Fayetteville, AR, ²Blue River Technology, Sunnyvale, CA, ³Blue River Technology, Leland, MS, ⁴North Carolina State University, Raleigh, NC (124)

TUESDAY MORNING JANUARY 24

Graduate Student Oral Presentation Contest

LOCATION: Salon IV
TIME: 8:00 AM - 12:00 PM CST

MODERATOR: Hannah Wright
University of Arkansas
Athens, GA

***SPEAKER † STUDENT CONTEST**

- 08:00 AM †Does Seed Quality Influence Cotton Tolerance to PRE Herbicides?** J Forehand*¹, CW Cahoon¹, G Collins², K Edmisten¹, M Phillips¹, ZR Taylor³, JH de Sanctis¹, BA Dean¹, H Lee¹, L Snyder¹; ¹North Carolina State University, Raleigh, NC, ²North Carolina State University, Bailey, NC, ³North Carolina State University, Sanford, NC (125)
- 08:15 AM †Optimizing Impregnated Pyroxasulfone for Cotton.** BA Dean*, CW Cahoon, Z Taylor, JH de Sanctis, J Forehand, H Lee; North Carolina State University, Raleigh, NC (126)
- 08:30 AM †Optimizing Living Mulch Vegetation-Free Strip Width Across Two Edaphic Regions in Georgia Cotton.** S Shome*, N Gaur, HC Lindell, C Bocz, NT Basinger; University of Georgia, Athens, GA (127)
- 08:45 AM †Palmer Amaranth Control with a Moldboard Plow in a Cotton Production System.** TC Smith*¹, JK Norsworthy¹, T Barber², RB Farr¹, LB Piveta¹, MC Woolard¹; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (128)

- 09:00 AM** †**Alternate Application Methods of Dicamba in Texas Cotton to Reduce Off-target Movement.** HR Taylor*¹, SA Nolte², JA McGinty³, PA Dotray⁴, ZS Howard⁵; ¹Texas A&M University, College Station, TX, ²Texas A&M AgriLife Extension, College Station, TX, ³Texas A&M AgriLife Extension, Corpus Christi, TX, ⁴Texas Tech University and Texas A&M AgriLife Research & Extension, Lubbock, TX, ⁵Texas A&M University, College Station, TX (129)
- 09:15 AM** †**Hard Water Effect on Glyphosate Grass Control in the Enlist Weed System.** JT McCaghren*, S Li, RD Langemeier, L Pereira; Auburn University, Auburn, AL (130)
- 09:30 AM** †**The Effect of Glyphosate Salts and Volatility-Reducing Agents (VRA) on Dicamba Volatility.** NT Glenn*¹, DB Reynolds¹, JK Norsworthy², KW Bradley³, BG Young⁴; ¹Mississippi State University, Starkville, MS, ²University of Arkansas, Fayetteville, AR, ³University of Missouri, Columbia, MO, ⁴Purdue University, Brookston, IN (131)
- 09:45 AM** †**Control of Annual Grasses Using New Sorghum Herbicides.** BA Patton*¹, PA Dotray²; ¹Texas Tech University, Lubbock, TX, ²Texas Tech University and Texas A&M AgriLife Research & Extension, Lubbock, TX (132)
- 10:00 AM** **Break**
- 10:15 AM** †**Quinclorac-Resistant Smooth Crabgrass (*Digitaria ischaemum*): Confirmation and Mechanism of Resistance.** AD Putri*, T Tseng, V Varsha, JD McCurdy; Mississippi State University, Starkville, MS (133)
- 10:30 AM** †**Palmer Amaranth Interference in Furrow-irrigated Rice.** TA King*¹, JK Norsworthy¹, CH Arnold¹, TC Smith¹, NH Reed¹, T Barber², TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (134)

- 10:45 AM** †**Italian Ryegrass Control Using Fall-Applied Residual Herbicides in Rice.** TD Burrell II*¹, J Bond¹, HD Bowman², TW Eubank³, GA Mangialardi⁴; ¹Mississippi State University, Stoneville, MS, ²Mississippi State University, Starkville, MS, ³Mississippi State University, Greenville, MS, ⁴Mississippi State University, Shelby, MS (135)
- 11:00 AM** †**Gambit and Propanil Interactions for Broadleaf Weed Control in Water-seeded Rice.** JA Williams*, C Webster; Louisiana State University AgCenter, Baton Rouge, LA (136)
- 11:15 AM** †**Root System Architectural Traits and Genes Linked to Allelopathic Effects in Weedy Rice.** NA Maphalala*¹, A Tucker¹, BC Schumaker¹, S Shrestha¹, SD Stallworth¹, N Roma-Burgos², T Tseng¹; ¹Mississippi State University, Starkville, MS, ²University of Arkansas, Fayetteville, AR (137)
- 1:30 AM** †**Fenclorim-Treated Rice Seed Partially Safens the Crop to Metolachlor on a Clay Soil.** SC Noe*¹, JK Norsworthy², LB Piveta², CT Arnold², MC Castner², TH Avent²; ¹University of Arkansas, Fayetteville, KY, ²University of Arkansas, Fayetteville, AR (138)
- 11:45 AM** †**Efficacy of Alite™ 27 When Used Preplant Incorporated or Preemergence.** M Mills*¹, PA Dotray², S Asher³, G Baldwin⁴, AC Hixson³, B Rodriguez⁵; ¹Texas Tech University, Lubbock, TX, ²Texas Tech University and Texas A&M AgriLife Research & Extension, Lubbock, TX, ³BASF, Lubbock, TX, ⁴BASF, Research Triangle Park, NC, ⁵Texas A&M AgriLife Research and Extension, Lubbock, TX (139)

TUESDAY MORNING JANUARY 24

Graduate Student Oral Presentation Contest

LOCATION: Salon III
TIME: 8:00 AM - 12:00 PM
Central Time
MODERATOR: Pete Eure
Syngenta Crop Protection
Greensboro, NC

***SPEAKER † STUDENT CONTEST**

- 08:00 AM †Effect of Mowing Height on Common Lawn Weeds as a Floral Resource.** C Wang*¹, E Begitschke¹, AA Young¹, KA Tucker¹, GM Henry¹, JD McCurdy², D Held³; ¹University of Georgia, Athens, GA, ²Mississippi State University, Starkville, MS, ³Auburn University, Auburn, AL (140)
- 08:15 AM †Khakiweed (*Alternanthera pugens*) Response to PRE and POST Herbicide Application.** AE McEachin*, TL Grey; University of Georgia, Tifton, GA (141)
- 08:30 AM †Confirmation of Cross Resistance to Microtubule-inhibitor Herbicides in *Poa annua* L. from Texas and Florida Golf Courses.** AW Osburn*¹, R Bowling², B Unruh³, C McKeithen³, MV Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Texas A&M University, Dallas, TX, ³Florida State University, Jay, FL (142)
- 08:45 AM †Herbicides Applied with an Agricultural Spray Drone Control Smooth Crabgrass in Managed Turf.** D Koo*, S Askew, N Godara, JM Peppers; Virginia Tech, Blacksburg, VA (143)

- 09:00 AM** †**Selected Plant Growth Regulators Reduce Root and Foliar Biomass of Goosegrass and Smooth Crabgrass.** JM Peppers*¹, JS McElroy², S Askew¹; ¹Virginia Tech, Blacksburg, VA, ²Auburn University, Auburn, AL (144)
- 09:15 AM** †**Identification and Quantification of Allelochemicals Released by Sweetpotato Roots.** V Varsha*, W Segbefia, Z Yue, MW Shankle, T Tseng; Mississippi State University, Starkville, MS (145)
- 09:30 AM** †**Response of Green Antelopehorn Milkweed (*Asclepias viridis* W.) and Hemp Dogbane (*Apocynum cannabinum*) to Auxinic Herbicides.** KL Broster*, TH Duncan, JD Byrd, Jr.; Mississippi State University, Starkville, MS (146)
- 09:45 AM** †**Methyl Isothiocyanate (MITC) Concentration, Distribution, and Persistence in Sandy Soil as Influenced by Dazomet Application Methods.** E Gomiero Polli*, T Gannon, M LeCompte, R Rogers, K Ahmed; North Carolina State University, Raleigh, NC (147)
- 10:00 AM** **Break**
- 10:15 AM** †**Using UAVs to Apply Pesticides: Determining Uniformity of Application.** AA Tavares*¹, DM Dodds¹, JA Patterson¹, SC Baker¹, GA Stephens¹, CK Meyer¹, BK Fritz²; ¹Mississippi State University, Starkville, MS, ²USDA-ARS, College Station, TX (148)
- 10:30 AM** †**Evaluating Rice Competitiveness Against Barnyardgrass and Hemp Sesbania at Various Water Salinity Levels.** G Singh*¹, B Ward², R Karthikeyan¹, S White¹, J Rohila³, MA Cutulle²; ¹Clemson University, Clemson, SC, ²Clemson University, Charleston, SC, ³USDA- ARS, Stuttgart, AR (149)

- 10:45 AM** †**Hybrid Rice Cultivar Seeded at Different Densities Response to Application of Florpyrauxifen-benzyl.** TW Eubank*¹, J Bond², TD Burrell II², GA Mangialardi³, LT Bell¹, HM Edwards²; ¹Mississippi State University, Greenville, MS, ²Mississippi State University, Stoneville, MS, ³Mississippi State University, Shelby, MS (150)
- 11:00 AM** †**Response of Cotton Maturity Groups to Low Rates of 2,4-D.** KR Russell*¹, PA Dotray², IL Pabuayon³, GL Ritchie¹; ¹Texas Tech University, Lubbock, TX, ²Texas Tech University and Texas A&M AgriLife Research & Extension, Lubbock, TX, ³Louisiana State University AgCenter, Rayne, LA (151)
- 11:15 AM** †**Introduction of the First 4-Trait Herbicide Tolerant 'Axant™ Flex System' Cotton.** J Dudak*¹, ZR Treadway¹, TA Baughman¹, G Baldwin², T Barber³, CW Cahoon⁴, A Culpepper⁵, AC Hixson⁶, S Li⁷, SA Nolte⁸; ¹Oklahoma State University, Ardmore, OK, ²BASF, Research Triangle Park, NC, ³University of Arkansas, Lonoke, AR, ⁴North Carolina State University, Raleigh, NC, ⁵University of Georgia, Tifton, GA, ⁶BASF, Lubbock, TX, ⁷Auburn University, Auburn, AL, ⁸Texas A&M AgriLife Extension, College Station, TX (152)
- 11:30 AM** †**Melatonin as a Safener Against 2,4-D Injury in Cotton.** JC Argenta*, AL Miller, T Tseng; Mississippi State University, Starkville, MS (153)
- 11:45 AM** †**Effect of Rye Cover Crop Biomass and Herbicide Program for Weed Management in Cotton.** YR Upadhyaya*¹, P Devkota²; ¹University of Florida, Gainesville, FL, ²University of Florida, Jay, FL (154)

TUESDAY AFTERNOON JANUARY 24

New Technologies

LOCATION: Salon III & IV
TIME: 2:30 PM - 4:30 PM CST
MODERATOR: Lawson Priess
Corteva Agriscience
Benton, AR

***SPEAKER**

- 02:30 PM Modern Data Collection in Agriculture: Utilizing See and Spray™ Cameras to Improve Quantitative Assessments.** LM Lazaro*¹, MM Houston², S Brown¹, J Gizotti de Moraes¹, WL Patzoldt¹; ¹Blue River Technology, Sunnyvale, CA, ²Blue River Technology, Leland, MS (155)
- 02:45 PM Interaction of See and Spray™ Model Sensitivity and Application Timing in Soybean.** DJ Contreras*¹, W Everman¹, JK Norsworthy², TH Avent², BG Young³, M Zimmer⁴, JM Mausbach⁵, MM Houston², LM Lazaro⁶, WL Patzoldt⁶; ¹North Carolina State University, Raleigh, NC, ²University of Arkansas, Fayetteville, AR, ³Purdue University, Brookston, IN, ⁴Purdue University, West Lafayette, IN, ⁵University of Nebraska-Lincoln, Lincoln, NE, ⁶Blue River Technology, Sunnyvale, CA (156)
- 03:00 PM What's New in Industry.** JC Holloway Jr*; Syngenta Crop Protection, Jackson, TN (157)
- 03:15 PM Single Tank vs Dual Tank See & Spray™ Programs in Soybean.** W Everman*¹, DJ Contreras¹, JK Norsworthy², TH Avent², BG Young³, LM Lazaro⁴, WL Patzoldt⁴, MM Houston²; ¹North Carolina State University, Raleigh, NC, ²University of Arkansas, Fayetteville, AR, ³Purdue University, Brookston, IN, ⁴Blue River Technology, Sunnyvale, CA (158)

- 03:30 PM** **Evaluation of Crop Herbicide Tolerance Using UAV Obtained Multispectral Imagery.** RD Langemeier*, L Pereira, JT McCaghren, S Li; Auburn University, Auburn, AL (159)
- 03:45 PM** **Effect of Adjuvants on Canopy Deposition with a UAV Spray Platform.** RJ Edwards*¹, LA Boles¹, GK Dahl², SA Fredericks¹; ¹WinField United, River Falls, WI, ²Winfield United, Eagan, MN (160)
- 04:00 PM** **Use of Phytosterol as a Pre-emergent Herbicide and its Analysis as an Organic Alternative to Commercial Organic and Synthetic Pre-emergent Herbicides.** K Kumar*¹, L Griffing²; ¹Griffing Biologics LLC, Hearne, TX, ²Texas A&M University, College Station, TX (161)
- 04:15 PM** **Weed Management with Unmanned Aerial System.** V Singh*¹, D Srivastava¹, V Kumar¹, DE Martin²; ¹Virginia Tech, Painter, VA, ²USDA-ARS, College Station, TX (162)

TUESDAY AFTERNOON JANUARY 24

Weed / Vegetation Management in Forestry

LOCATION: Bienvenue
TIME: 2:30 PM - 4:00 PM CST

MODERATOR: David P. Russell
Auburn University
Madison, AL

***SPEAKER**

- 02:30 PM Evaluation of Glyphosate Alternatives for Pine Control in the Coastal Plain.** DC Clabo*¹, ED Dickens²; ¹University of Georgia, Tifton, GA, ²University of Georgia, Athens, GA (163)
- 02:45 PM Age Three Loblolly Pine Survival and Growth Response to Impregnated Fertilizer for Herbaceous Weed Control.** DC Clabo*¹, ED Dickens²; ¹University of Georgia, Tifton, GA, ²University of Georgia, Athens, GA (164)
- 03:00 PM Control of Natural Pines Using Glufosinate - A Comparison of Application Timings.** JE Ezell*; Mississippi State University, Starkville, MS (165)
- 03:15 PM Efficacy of Mid-Rotation Brush Control Applications Using Imazapyr and Glufosinate.** AW Ezell*¹, AB Self², JE Ezell¹; ¹Mississippi State University, Starkville, MS, ²Mississippi State University, Grenada, MS (166)
- 03:30 PM Site Preparation with Mixtures Containing Triclopyr, Fluroxypyr, Imazapyr, 2,4-D, and Aminopyralid+ Florpyrauxifen.** AB Self*¹, JE Ezell², AW Ezell²; ¹Mississippi State University, Grenada, MS, ²Mississippi State University, Starkville, MS (167)

03:45 PM **Loblolly Seedling Tolerance to Increased Rates of Florpyrauxifen-benzyl Applied During Site Preparation.** AW Ezell*¹, AB Self², JE Ezell¹; ¹Mississippi State University, Starkville, MS, ²Mississippi State University, Grenada, MS (168)

TUESDAY AFTERNOON JANUARY 24

ORAL - Section 03 - Weed Management in Pastures and Rangeland

LOCATION: Bienvenue
TIME: 4:00 PM - 4:30 PM CST
MODERATOR: David P. Russell
Auburn University
Madison, AL

***SPEAKER**

04:00 PM **Knotroot Foxtail Control in Bermudagrass Hayfields.** JL Belcher*; Envu, Auburn, AL (169)

04:15 PM **Using Unmanned Aerial Systems for Identifying Smutgrass (*Sporobolus indicus*) and Management Interventions.** ZS Howard*¹, DE Martin², C Yang², SA Nolte³; ¹Texas A&M University, College Station, TX, ²USDA-ARS, College Station, TX, ³Texas A&M AgriLife Extension, College Station, TX (170)

TUESDAY AFTERNOON JANUARY 24

**Soil and Environmental Aspects of
Weed Science**

LOCATION: Bistineau
TIME: 2:00 PM - 2:30 PM CST
MODERATOR: Benjamin P. Sperry
US Army Corps of
Engineers
Gainesville, FL

***SPEAKER**

02:00 PM Dicamba Research Update. TC Mueller*¹, L Steckel²; ¹University of Tennessee, Knoxville, TN, ²University of Tennessee, Jackson, TN (171)

02:15 PM Nutrient and Cost Ramifications of Soybean Residue Loss During Harvest Weed Seed Control. WJ Stutzman*¹, MP Spoth¹, LM Lazaro², G LaBiche³, WE Thomason¹, K Bamber¹, ML Flessner¹; ¹Virginia Tech, Blacksburg, VA, ²Blue River Technology, Sunnyvale, CA, ³Louisiana State University AgCenter, Baton Rouge, LA (172)

TUESDAY AFTERNOON JANUARY 24

Educational Aspects of Weed Control

LOCATION: Bistineau
TIME: 3:00 PM – 3:30 PM CST

MODERATOR: Benjamin P. Sperry
US Army Corps of
Engineers
Gainesville, FL

***SPEAKER**

- 03:00 PM Summary of the 1st Annual Meeting of the Southern Extension Weed Science Working Group.** CW Cahoon*¹, T Barber², TA Baughman³, P Devkota⁴, PA Dotray⁵, W Everman¹, J Heiser⁶, S Lancaster⁷, S Li⁸, J Carvalho de Souza Dias⁹, MW Marshall¹⁰, SA Nolte¹¹, EP Prostko¹², DP Russell¹³, V Singh¹⁴, L Steckel¹⁵, C Webster¹⁶, G Morgan¹⁷; ¹North Carolina State University, Raleigh, NC, ²University of Arkansas, Lonoke, AR, ³Oklahoma State University, Ardmore, OK, ⁴University of Florida, Jay, FL, ⁵Texas Tech University and Texas A&M AgriLife Research & Extension, Lubbock, TX, ⁶University of Missouri, Portageville, MO, ⁷Kansas State University, Manhattan, KS, ⁸Auburn University, Auburn, AL, ⁹University of Arizona, Maricopa, AZ, ¹⁰Clemson University, Blackville, SC, ¹¹Texas A&M AgriLife Extension, College Station, TX, ¹²University of Georgia, Tifton, GA, ¹³Auburn University, Madison, AL, ¹⁴Virginia Tech, Painter, VA, ¹⁵University of Tennessee, Jackson, TN, ¹⁶Louisiana State University AgCenter, Baton Rouge, LA, ¹⁷Cotton Incorporated, Cary, NC (173)
- 03:15 PM The State of Weed Science Education in the US.** CM Prince*, SF Enloe, J Ferrell; University of Florida, Gainesville, FL (174)

WEDNESDAY MORNING JANUARY 25

Weed Management in Agronomic Crops

LOCATION: Salon II
TIME: 7:30 AM - 12:00 PM CST
MODERATOR: Kelly A. Backscheider
Corteva
Franklin, IN

***SPEAKER**

- 07:30 AM Influence of Planting Pattern and Herbicide Programs for Sicklepod Control in Peanut.** OS Daramola*¹, P Devkota², GE MacDonald³, R Kanissery⁴, BL Tillman⁵, H Singh²; ¹University of Florida/IFAS, Jay, FL, ²University of Florida, Jay, FL, ³University of Florida, Gainesville, FL, ⁴University of Florida/IFAS, Immokalee, FL, ⁵University of Florida, Marianna, FL (175)
- 07:45 AM Crop Rotational Effect of Winter *Brassica carinata* Production on Peanut Weed Control.** P Devkota*¹, S Mathew², N Singh¹; ¹University of Florida, Jay, FL, ²University of Florida/IFAS, Jay, FL (176)
- 08:00 AM Paraquat-Resistant Italian Ryegrass (*Lolium multiflorum*) Confirmed in Louisiana.** AJ Orgeron*¹, AB Coco III¹, DJ Spaunhorst²; ¹Louisiana State University AgCenter, Baton Rouge, LA, ²USDA-ARS, Houma, LA (177)
- 08:15 AM Kochia Management in No-till Cotton Systems.** CR White*, W Keeling; Texas A&M AgriLife Research, Lubbock, TX (178)
- 08:30 AM Integration of Cover Crops and Herbicides for Weed Control in Cotton.** A Kumari*¹, AJ Price², S Li¹; ¹Auburn University, Auburn, AL, ²USDA-ARS, Auburn, AL (179)

- 08:45 AM Cotton Tolerance to Over-the-Top Application of Various Herbicide Coated Fertilizers.** SL Pritchett*¹, JK Norsworthy¹, MC Woolard¹, TA King¹, SC Noe², T Barber³; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Fayetteville, KY, ³University of Arkansas, Lonoke, AR (180)
- 09:00 AM Diflufenican: a Tool for Managing *Amaranthus* Species in Corn and Soybean Cropping Systems.** J Buol*, C Coburn, R Leitz, E Riley, A Datta; Bayer, St. Louis, MO (181)
- 09:15 AM Does Timing of a Soil-applied Diflufenican Mixture Impact Soybean Tolerance and Palmer Amaranth Control?** MC Woolard*¹, JK Norsworthy¹, CT Arnold¹, CH Arnold¹, MC Castner¹, TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (182)
- 09:30 AM Break**
- 09:45 AM A23980B: A Step Change for Residual Weed Control in Corn.** JR Brewer*¹, SE Cully², M Kitt³, T Beckett³; ¹Syngenta Crop Protection, Vero Beach, FL, ²Syngenta Crop Protection, Marion, IL, ³Syngenta Crop Protection, Greensboro, NC (183)
- 10:00 AM A23980B: Exceptional Corn Weed Control from Four Complimentary Active Ingredients.** BD Black*¹, SA Strom², M Kitt³, TH Beckett³; ¹Syngenta Crop Protection, Searcy, AR, ²Syngenta Crop Protection, Monticello, IL, ³Syngenta Crop Protection, Greensboro, NC (184)
- 10:15 AM Single and Sequential Applications of Oxyfluorfen for Weedy Rice Control.** CH Arnold*¹, JK Norsworthy¹, NH Reed¹, TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (185)
- 10:30 AM Does Application Timing of Fluridone Impact Rice Tolerance?** JK Norsworthy¹, TA

King¹, MC Souza*¹, SC Noe², T Barber³, TR Butts³; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Fayetteville, KY, ³University of Arkansas, Lonoke, AR (186)

10:45 AM Identification and Control of *Fimbristylis littoralis* in Louisiana Rice. C Webster*, JA Williams, M Arcement; Louisiana State University AgCenter, Baton Rouge, LA (187)

11:00 AM Canopy Coverage and Weed Control as Affected by Drill-spacing and Bed Width in Furrow-irrigated Rice. K Kouame*¹, TR Butts¹, NH Reed², BM Davis¹, LM Collie¹, T Dillon¹, JK Norsworthy², T Barber¹, J Hardke³, J Bond⁴, HD Bowman⁵; ¹University of Arkansas, Lonoke, AR, ²University of Arkansas, Fayetteville, AR, ³University of Arkansas, Stuttgart, AR, ⁴Mississippi State University, Stoneville, MS, ⁵Mississippi State University, Starkville, MS (188)

11:15 AM Cultural Weed Management Strategies in Rice: Effects of Drill Row Width and Rice Cultivar. NH Reed*¹, TR Butts², JK Norsworthy¹, J Hardke³, T Barber², J Bond⁴, HD Bowman⁵, BM Davis², T Dillon², K Kouame²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR, ³University of Arkansas, Stuttgart, AR, ⁴Mississippi State University, Stoneville, MS, ⁵Mississippi State University, Starkville, MS (189)

WEDNESDAY MORNING JANUARY 25

**ORAL - Section 02 - Weed Management in
Turf**

LOCATION: Salon III
TIME: 8:00 AM - 10:45 AM CST
MODERATOR: Pawel Petelewicz
University of Florida
Gainesville, FL

***SPEAKER**

- 08:00 AM Pronamide Resistant *Poa annua*: a Potential Target-Site Mutation Conferring Cross Resistance to Mitotic Inhibiting Herbicides.** MJ Igenes¹, T Tseng¹, JS McElroy², CA Rutland², A Meredith¹, JD McCurdy*¹; ¹Mississippi State University, Starkville, MS, ²Auburn University, Auburn, AL (190)
- 08:15 AM Virginia Buttonweed Control in Common Bermudagrass.** T Stoudemayer*, LB McCarty; Clemson University, Clemson, SC (191)
- 08:30 AM Preemergence *Poa annua* and *Kyllinga squamulata* Control in 'TifEagle' Bermudagrass Putting Greens.** RB Cross*¹, B McCarty², T Stoudemayer²; ¹Cross Turf & Agronomy LLC, Central, SC, ²Clemson University, Clemson, SC (192)
- 08:45 AM Postemergent Control for Cockscomb *Kyllinga* in Bermudagrass Putting Greens.** A Gore*, LB McCarty, T Stoudemayer; Clemson University, Clemson, SC (193)
- 09:00 AM Recognition, a New Herbicide Safener, Enhances Weed Control Options in Zoysiagrass and St. Augustinegrass.** T

Stoudemayer, LB McCarty*; Clemson University, Clemson, SC (194)

09:15 AM Break

09:30 AM Endothall and Methiozolin: Potential New Herbicides for Weed Control on Ultradwarf Bermudagrass. JM Peppers*, S Askew; Virginia Tech, Blacksburg, VA (195)

09:45 AM Tank Mixes with Recognition, Syngenta's Safened Trifloxysulfuron, for Broadleaf and Grassy Weed Control. AL Wilber*¹, JD McCurdy¹, L Dant²; ¹Mississippi State University, Starkville, MS, ²Syngenta Crop Protection, Greensboro, NC (196)

10:00 AM Simulation-based Nozzle Density Optimization for Maximized Efficacy of Machine-vision Based Weed Control System for Applications in Turfgrass Settings. P Petelewicz*¹, Q Zhou², M Schiavon³, AW Schumann⁴, N Boyd⁵; ¹University of Florida, Gainesville, FL, ²North Carolina State University, Raleigh, NC, ³University of Florida, Davie, FL, ⁴University of Florida, Lake Alfred, FL, ⁵University of Florida/Gulf Coast Research and Education Center, Balm, FL (197)

10:15 AM An Update on Survey on Herbicide Resistant Goosegrass in Turf. JS McElroy*, BC Johnson, J Patel, CA Rutland; Auburn University, Auburn, AL (198)

10:30 AM Long-term Annual Bluegrass Control with Cumyluron. GM Henry*, E Begitschke, KA Tucker; University of Georgia, Athens, GA (199)

WEDNESDAY MORNING JANUARY 25

ORAL - Section 13 - Weed Biology and Ecology

LOCATION: Bienvenue
TIME: 10:00 AM - 10:45 AM CST
MODERATOR: Peter J. Dittmar
University of Florida
Gainesville, FL

***SPEAKER**

- 10:00 AM Germination Ecology of Palmer Amaranth and Yellow Nutsedge: Problematic Weeds for Row Crops in Florida.** S Mathew*¹, P Devkota¹, S Regmi¹, YR Upadhyaya², OS Daramola³, N Singh¹; ¹University of Florida, Jay, FL, ²University of Florida, Gainesville, FL, ³University of Florida/IFAS, Jay, FL (200)
- 10:15 AM Study of Rapid Evolution of Competitive Ability in Weeds Using Resurrection Studies.** SR Ethridge¹, S Chandra¹, W Everman¹, DL Jordan¹, AM Locke¹, MD Owen², RG Leon*¹; ¹North Carolina State University, Raleigh, NC, ²Iowa State University, Ames, IA (201)
- 10:30 AM Protecting Sweet Potato from Deer Browsing Using Weed Extracts.** Z Yue*, K Beneton, CA Snoddy, MW Shankle, T Tseng; Mississippi State University, Starkville, MS (202)

WEDNESDAY MORNING JANUARY 25

ORAL - Section 04 - Weed Management in Horticultural Crops

LOCATION: Bienvenue
TIME: 11:00 AM - 11:45 AM CST
MODERATOR: Peter J. Dittmar
University of Florida
Gainesville, FL

***SPEAKER**

- 11:00 AM IR-4 Update - Weed Science Food Crop Projects.** RB Batts*, JJ Baron, V Pedibhotla; IR-4 Project HQ, NC State University, Raleigh, NC (203)
- 11:15 AM Optimizing Anaerobic Soil Disinfestation for Use in South Carolina Watermelon Production.** MA Cutulle*¹, HT Campbell¹, G Miller², A Rainwater³; ¹Clemson University, Charleston, SC, ²Clemson University, Blackville, SC, ³Growers for Grace, Beaufort, SC (204)
- 11:30 AM Preemergence Herbicides with Safeners for Improving Crop Safety and Productivity in Tomato Plasticulture Production.** R Tiwari*¹, N Boyd², P Roberts¹, SH Daroub³, R Kanissery⁴; ¹University of Florida/Southwest Florida Research and Education Center, Immokalee, FL, ²University of Florida/Gulf Coast Research and Education Center, Balm, FL, ³University of Florida/Everglades Research and Education Center, Everglades, FL, ⁴University of Florida/IFAS, Immokalee, FL (205)

WEDNESDAY MORNING JANUARY 25

**ORAL - Section 07 - Physiological and
Biological Aspects of Weed Control**

LOCATION: Des Glaises
TIME: 8:00 AM - 8:15 AM CST
MODERATOR: Sam Rustom
FMC
Katy, TX

***SPEAKER**

08:00 AM Possible Contribution of Two Different Mechanisms to Evolution of S-Metolachlor Resistance in Palmer Amaranth (*Amaranthus palmeri* S. Wats.). J Hwang*¹, JK Norsworthy¹, P Carvalho-Moore¹, T Barber², TR Butts²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (206)

WEDNESDAY MORNING JANUARY 25

ORAL - Section 10 - Invasive Plant Species

LOCATION: Des Glaises
TIME: 8:30 AM - 8:45 AM CST
MODERATOR: Sam Rustom
FMC
Katy, TX

***SPEAKER**

08:30 AM Evaluating the Backcrossing Potential in the F₁ Progeny of *Sorghum bicolor* x *S. halepense* Interspecific Crosses. UR Pedireddi*, M Chung, R Afshang, NK Subramanian, G Hodnett, W Rooney, MV

Bagavathiannan; Texas A&M University,
College Station, TX (207)

WEDNESDAY MORNING JANUARY 25

**ORAL - Section 15 - Weed Management in
Organic Production Systems**

LOCATION: Des Glaises
TIME: 9:00 AM - 9:15 AM CST
MODERATOR: Sam Rustom
FMC
Katy, TX

***SPEAKER**

**09:00 AM Evaluation of Non-chemical Options for
Johnsongrass Control in Fallow. G Camargo
Silva*, MV Bagavathiannan; Texas A&M
University, College Station, TX (208)**

WEDNESDAY AFTERNOON NOVEMBER 2

**ORAL - Section 01 - Weed Management in
Agronomic Crops**

LOCATION: Salon I
TIME: 2:00 PM - 5:00 PM CST
MODERATOR: Zachary S. Howard
Texas A&M
College Station, TX

***SPEAKER**

**02:00 PM Response of Soybean at Different Growth
Stages to Drift Rates of Imazapyr. MW
Marshall*, MB Williams; Clemson University,
Blackville, SC (209)**

- 02:15 PM Chaff Lining for Management of Weeds in Soybean.** MP Spoth¹, ML Flessner*¹, K Bamber¹, V Kumar², V Singh², WC Greene¹, C Sias¹, EC Russell¹; ¹Virginia Tech, Blacksburg, VA, ²Virginia Tech, Painter, VA (210)
- 02:30 PM Use of a Spray Drone for Corn Harvest Aid Herbicide Applications.** RD Langemeier*, L Pereira, JT McCaghren, S Li; Auburn University, Auburn, AL (211)
- 02:45 PM Simulating Postemergence Optical Spot Spraying Applications Following Acuron Applied Preemergence.** JW Adams*¹, R Wuerffel², R Lind³, T Glenn⁴, D Belles⁵; ¹Syngenta Crop Protection, Vero Beach, FL, ²Syngenta Crop Protection, Gerald, MO, ³Syngenta Crop Protection, Jealotts Hill, United Kingdom, ⁴Syngenta Crop Protection, Orlando, FL, ⁵Syngenta Crop Protection, Greensboro, NC (212)
- 03:00 PM Optimizing Herbicide Programs in Response to Reduced Palmer Amaranth Emergence and Growth Rate in Cover Crops.** C Sias*, ML Flessner, K Bamber; Virginia Tech, Blacksburg, VA (213)
- 03:15 PM Comparison of Residual Palmer Amaranth Control with Soil-applied Herbicides in Rainfed Systems.** MC Castner*, JK Norsworthy, MC Souza, SL Pritchett; University of Arkansas, Fayetteville, AR (214)
- 03:30 PM Break**
- 03:45 PM Integrated Weed Management Practices to Control ALS and PPO-Inhibitor Resistant Palmer Amaranth.** JT McCaghren*, S Li, RD Langemeier, L Pereira; Auburn University, Auburn, AL (215)
- 04:00 PM Detection and Site-Specific Treatment of Waterhemp 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 (216)

04:15 PM Response of Glufosinate-Resistant Palmer Amaranth Population to Current Weed Control Technologies. P Carvalho-Moore*¹, JK Norsworthy¹, TA King¹, TH Avent¹, CT Arnold¹, D Smith¹, T Barber²; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (217)

04:30 PM Confirming Georgia Palmer Amaranth Resistance to PPO-inhibiting Herbicides Applied PRE and POST. TM Randell-Singleton*¹, LC Hand¹, JC Vance¹, HE Wright², A Culpepper¹; ¹University of Georgia, Tifton, GA, ²University of Georgia, Athens, GA (218)

04:45 PM Can Palmer Amaranth be Managed without Dicamba or Glufosinate? L Steckel*¹, PA Dotray², G Morgan³; ¹University of Tennessee, Jackson, TN, ²Texas Tech University and Texas A&M AgriLife Research & Extension, Lubbock, TX, ³Cotton Incorporated, Cary, NC (219)

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Gold

**BASF Corporation
Bayer CropScience
Corteva Agriscience
FMC
Syngenta Crop Protection**

Bronze

**ADAMA
AMVAC Chemical Corp.
BASF Seed and Traits
Belchim
Bellspray, Inc.
Blue River Technology
Diligent Technologies
Greenleaf Technologies
K-I Chemical U.S.A. Inc.
Nichino America
PBI Gordon
TeeJet Technologies - Spraying Systems Co.
The Scotts Company
UPL NA, Inc.
Valent USA Corp
Winfield United**

Personal Time Schedule			
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8:00			
8:15			
8:30			
8:45			
9:00			
9:15			Break
9:30			
9:45			
10:00		Break	
10:30			
11:00			
11:30			
12:00			
12:15			
12:30		Grad Student Luncheon	SWSS Awards 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	General Session	Women's Networking Event	
3:45			Break
4:00			
4:30			
5:00			
5:30			Graduate Student Awards Reception
6:00		Quiz Bowl	
6:30			
7:00			
7:15			
7:30			
8:00			

