

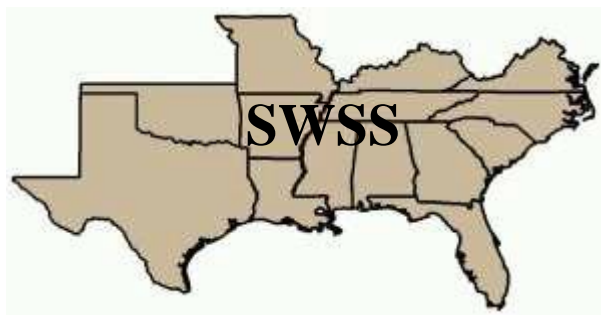
# Program

72<sup>nd</sup>

## Annual Meeting

### **Southern Weed Science Society**

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**Theme:**

*“United for a Productive Future”*

**February 03-06, 2019**

**Renaissance Convention Center Hotel and Spa  
Oklahoma City, OK**

**PLEASE SUBMIT ABTRACTS TO WEBSITE PRIOR TO MEETING**

**PLEASE SUBMIT POWERPOINT FILES TO WEBSITE**

## Local Arrangements Committee

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Todd Baughman	Chair
Kelley Mazur	Registration
Russ Perkins	Audio Visual
Bruce Steward	Equipment Storage & Security
Luke Etheredge	Graduate Students & Room Reservations
Adam Hixon	Information Booth & Message Coordinator
Gary Schwarzlose	Meal Functions
Eric Castner	Room Setup
Misha Manuchehri	Signs and Exhibits
Seth Byrd	Poster Setup

## Special Events

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### Endowment Function

Sunday, February 3, 2019

7:00 a.m. – 3:00 p.m.

### Graduate Student Mixer/Speaker

Sunday, February 3, 2019

5:00 p.m. – 7:00 p.m.

### SWSS General Session

Monday, February 4, 2019

1:00 p.m. – 3:00 pm

### Graduate Student Quiz Bowl

Tuesday, February 5, 2019

5:00 p.m. – 6:00 p.m.

### Christian Fellowship Breakfast

Wednesday, February 6, 2019

6:30 a.m. – 7:45 a.m.

### Graduate Student Luncheon

Wednesday, February 6, 2019

12:00 p.m. – 2:00 p.m.

### Women's Networking Event

Wednesday, February 6, 2019

4:00 p.m. – 5:00 p.m.

### SWSS Mixer/Awards Banquet

Wednesday, February 6, 2019

5:00 p.m. – 8:00 p.m.

## Future Meetings

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Beau Rivage Resort and Casino  
Biloxi, MS - January 26-30, 2020

Hilton Knoxville/Knoxville Convention Center  
Knoxville, TN – January 23-28, 2021

## **Southern Weed Science Society Officers**

### **PRESIDENT**

Bob Scott

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**CONSTITUTION AND OPERATING PROCEDURES**

**CHAIRPERSON**

**(EX-OFFICIO)**

Carroll Johnson

USDA-ARS

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**STUDENT REPRESENTATIVE (EX-OFFICIO)**

Zachary Lancaster

University of Arkansas.

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# Southern Weed Science Society

## Committees and Chairpersons

2019 Program	James Holloway
2020 Program	Eric Webster
Awards	Gary Schwarzlose
Business Manager/Sales Coordination	Kelley Mazur
Computer Application	Dan Reynolds/Shawn Askew
Constitution & Operating Procedures	Carroll Johnson
Education Units	Alan Estes
Endowment Foundation	Darrin Dodds
Finance	Eric Webster
Graduate Student Organization	Zachary Lancaster
Historical	John Byrd
Legislative and Regulatory	Angela Post
Local Arrangements	Todd Baughman
Long Range Planning	Peter Dotray
Newsletter Editor	Susan Scott
Nominating	Gary Schwarzlose
Research Committee	Eric Webster
Resolutions and Necrology	David Black
Site Selection	Eric Webster
Southern Weed Contest	Darrin Dodds
Student Program	Charlie Cahoon
Sustaining Membership	Jacob Reed
Weed Resistance and Technology Stewardship	Hunter Perry

## Program Section Chairs

Agronomic Crops	Vijay Singh
Uses of New Technologies in Weed Science - Symposia	James Holloway
Graduate Student Contest	Charlie Cahoon
Horticultural Crops	Nicholas Basinger
Physiological / Biological Aspects	Clyde Smith
Posters	Charlie Cahoon
New Technologies	Ryan Edwards
Weed Management in Turf	Shawn Askew
Educational Aspects of Weed Control	Clyde Smith
Soil and Environmental Aspects	Clyde Smith
Weed Biology and Ecology	Matthew Cutulle
Weed Management in Pastures, Rangeland,	John Byrd
Weed/Vegetation Management in Forestry	Clyde Smith

## **Registration**

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**MONDAY, February 4, 2019**

8:00 a.m. – 5:00 p.m.

**TUESDAY, February 5, 2019**

8:00 a.m. – 5:00 p.m.

**WEDNESDAY, February 6, 2019**

8:00 a.m. – 3:00 p.m.

## **Displays and Posters**

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Set-up time for displays and the Poster Session is 10:00 a.m. to noon on Monday, February 4, 2019, 2019 in the Ballroom D. The poster area will be open from 3:00 p.m. to 5:00 p.m. on Monday, 7:30 a.m. to 5:00 p.m. on Tuesday, and 7:30 to Noon on Wednesday. All posters are to be removed no later than 2 p.m. on Wednesday, February 6, 2019.

**Authors in the Student Contest will be present to discuss their posters from 7:00 a.m. to 8:00 a.m. on Tuesday. Authors of all other posters will be present from 7:30 to 8:00 a.m. on Wednesday.**

**Displays and Posters must be removed before 2:00 p.m.**

**On Wednesday, February 6, 2019.**

## **Silent Auction**

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Silent Auction will take place in Pre-Function Area and will close on **Wednesday, February 6, 2019 at 1:00 p.m.**

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

## Location of Events

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SWSS Executive Board Meetings	Meeting Room 16
Graduate Student Mixer	Ballroom A
Local Arrangements	Meeting Room 21
Graduate Contest Judge's Breakfast	Meeting Room 18
Graduate Contest Judge's Work Room	Meeting Room 18
SWSS Business Meeting	Ballroom AB
General Session	Ballroom AB
SWSS Quiz Bowl	Ballroom AB
GSO Luncheon	Meeting Room 18
Women's Networking Mixer	Meeting Room 18
SWSS Mixer	Pre Function Area
SWSS Awards Banquet	Ballroom AB

## PROGRAM OVERVIEW

### *Schedule of Events and Meetings*

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#### **SUNDAY, February 3, 2019**

7:00 a.m. – 3:00 p.m.	Endowment Function Lincoln Park Golf Course
8:00 a.m. – 5:00 p.m.	Local Arrangements Meeting Room 21
5:00 p.m. – 6:00 p.m.	SWSS Executive Board Meeting Meeting Room 16
5:00 p.m. – 7:00 p.m.	Graduate Student Event/Mixer Ballroom A <i>Sponsored by Syngenta Crop Protection</i>

#### **MONDAY, February 4, 2019**

7:00 a.m. – 8:00 a.m.	Local Arrangements/Section Chairs Ball Room D
7:00 a.m. – 5:00 p.m.	Local Arrangements Meeting Room 21
8:00 a.m. – 12:00 p.m.	Presentation Loading Area Pre Function Area
10:00 a.m. – 12:00 p.m.	Poster Setup Ball Room D
8:00 a.m. – 9:00 a.m.	Endowment Foundation Committee Meeting Room 17

8:00 a.m. – 9:00 a.m.	Sustaining Membership Committee Meeting Room 16
9:00 a.m. – 10:00 a.m.	Site Selection Committee Meeting Room 16
9:00 a.m. – 10:00 a.m.	Herbicide Resistant Weeds Meeting Room 20
9:00 a.m. – 10:00 a.m.	Student Contest Committee Meeting Room 17
10:00 a.m. – 11:00 a.m.	Finance Committee Meeting Room 20
10:00 a.m. – 12:00 a.m.	Legislative & Regulatory Committee Meeting Room 19
11:00 a.m. – 12:00 a.m.	SWSS Executive Board Meeting Meeting Room 16
1:00 p.m. – 2:50 p.m.	<b>Opening – General Session</b> Ballroom AB
1:00 p.m. – 5:00 p.m.	Presentation Loading Area Pre Function Area
5:00 p.m. – 6:00 p.m.	SWSS Business Meeting Ballroom AB
Immediately after Business Meeting	Weed Contest Committee Ballroom AB

## **TUESDAY, February 5, 2019**

6:00 a.m. – 8:00 a.m.	Graduate Student Contest Judges Breakfast Meeting Room 18
7:00 a.m. – 7:00 p.m.	Local Arrangements Meeting Room 21
8:00 p.m. – 5:00 p.m.	Graduate Student Contest Judges Work Room Meeting Room 18
8:00 a.m. – 12:00 p.m.	Presentation Loading Pre Function Area
5:00 p.m. – 6:00 p.m.	Graduate Student Quiz Bowl Ballroom AB <i>Sponsored by Bayer CropScience</i>



## **WEDNESDAY, February 6, 2019**

6:30 a.m. – 7:45 a.m.	SWSS Christian Fellowship Breakfast - Meeting Room 18
7:00 a.m. – 5:00 p.m.	Local Arrangements Meeting Room 21
Noon – 2:00 p.m.	Graduate Student Lunch / Symposium Meeting Room 18
4:00 p.m. – 5:00 p.m.	Women's Networking Event Meeting Room 18 <i>Sponsored by Corteva Agriscience</i>
5:00 – 6:00 p.m.	SWSS Mixer Pre Function Area
6:00 p.m. – 8:00 p.m.	SWSS Awards Banquet Ballroom AB

## **THURSDAY, February 7, 2019**

7:00 a.m. – 10:00 a.m.	SWSS Executive Board Breakfast & Board Meeting Meeting Room 16
8:00 a.m. – 9:00 a.m.	Local Arrangements Committee Meeting Room 21

## **TECHNICAL PROGRAM OVERVIEW**

### **February 4, 2019 - Monday**

1:00 p.m. – 2:45 p.m.	General Session Ballroom AB
3:00 p.m. – 5:00 p.m.	Posters - Available for Viewing Ballroom D
3:00 p.m. – 5:00 p.m.	Uses of New Technologies in Weed Science Symposium Ballroom AB
5:00 p.m. – 6:00 p.m.	SWSS Business Meeting Ballroom AB
6:00 p.m. – 7:00 p.m.	SWSS Weed Contest Meeting Ballroom AB
(Immediately following the business meeting)	

## **February 5, 2019 - Tuesday**

- 7:30 a.m. – 12:00 p.m. Posters Session  
Ballroom D  
*Authors in the Student Contest Present (7:00 a.m. – 8:00 a.m.)*
- 8:00 a.m. – 5:00 p.m. Student Paper Contest - Masters Section - Meeting Room 19 20
- 7:00 a.m. – 3:30 p.m. Student Paper Contest - PhD Section
- \*All paper and poster judges please have completed score sheets to Charlie Cahoon by 5:30 pm on Tuesday**
- 8:15 a.m. – 9:45 a.m. Weed Biology and Ecology  
Meeting Room 14 15
- 10:00 a.m. – 12:00 p.m. Weed Management in Pasture and Rangeland  
Meeting Room 14 15
- 12:00 p.m. – 5:00 p.m. Posters – Available for Viewing  
Ballroom D
- 1:00 p.m. – 1:15 p.m. Educational Aspects of Weed Control  
Meeting Room 14 15
- 1:15 p.m. – 2:00 p.m. Physiological and Biological Aspects of Weed Control  
Meeting Room 14 15
- 2:00 p.m. – 2:45 p.m. Weed/Vegetation Management in Forestry  
Meeting Room 14 15
- 3:00 p.m. – 3:45 p.m. Soil and Environmental Aspects of Weed Science  
Meeting Room 14 15
- 5:00 p.m. – 6:00 p.m. Student Quiz Bowl  
Ballroom AB  
*Sponsored by Bayer CropScience*

## **February 6, 2019 - Wednesday**

- 7:30 a.m. – 12:00 p.m. Posters - Available for Viewing  
Ballroom D  
*Authors of all non-student posters present (7:30 a.m. – 8:00 a.m.)*  
**Posters removed before 2:00 p.m.**
- 8:15 a.m. – 4:00 p.m. Weed Management in Agronomic Crops  
Meeting Room 16 17

8:15 a.m. – 9:45 a.m.	New Technologies in Weed Science Meeting Room 19 20
10:00 a.m. – 12:00 p.m.	Weed Control in Horticulture Meeting Room 19 20
8:00 a.m. – 10:45 a.m.	Weed Control in Turf Meeting Room 14 15
Noon – 2:00 p.m.	Student Luncheon & Symposium ( <i>registered students/speakers only</i> ) Meeting Room 18
4:00 p.m. – 5:00 p.m.	Women’s Networking event Meeting Room 18 <i>Sponsored by Corteva Agriscience</i>
5:00 p.m. – 6:00 p.m.	SWSS MIXER Pre Function Area
6:00 p.m. – 8:00 p.m.	SWSS AWARDS BANQUET Ballroom AB

**February 7, 2019 - Thursday**

7:00 a.m. – 10:00 a.m.	SWSS Executive Board Breakfast & Meeting Meeting Room 16
8:00 a.m. – 9:00 a.m.	Local Arrangements Meeting Room 21

# PROGRAM

## Poster Section

**Location:** Ballroom D

**Chair and Moderator:** Charles Cahoon

### **\*PRESENTER**

**"GROW: A Science Based Resource Tool for Integrated Weed Management."** C.G. Rubione\*<sup>1</sup>, M.J. Vangessel<sup>1</sup>, L.M. Lazaro<sup>2</sup>, S. Mirsky<sup>3</sup>, K. Pittman<sup>4</sup>, M.L. Flessner<sup>5</sup>, M.V. Bagavathiannan<sup>6</sup>; <sup>1</sup>University of Delaware, Georgetown, DE, <sup>2</sup>Louisiana State University, Baton Rouge, LA, <sup>3</sup>USDA, Beltsville, MD, <sup>4</sup>Virginia Tech, Blacksburg, VA, <sup>5</sup>Virginia Tech PPWS Dept., Blacksburg, VA, <sup>6</sup>Texas A&M University, College Station, TX (1)

**Residual Overlay of Clomazone plus Pendimethalin with Other Residual Herbicides Labeled in Rice.** M.J. Osterholt\*<sup>1</sup>, E. Webster<sup>1</sup>, B. McKnight<sup>2</sup>, S. Rustom<sup>2</sup>, C. Webster<sup>3</sup>, D.C. Walker<sup>2</sup>; <sup>1</sup>Louisiana State University, Baton Rouge, LA, <sup>2</sup>LSU AgCenter, Baton Rouge, LA, <sup>3</sup>LSU, Baton Rouge, LA (2)

**Evaluation of Herbicide Overlap in Provisia Rice.** B. McKnight\*<sup>1</sup>, E. Webster<sup>2</sup>, R. Levy<sup>3</sup>, S. Rustom<sup>1</sup>, C. Webster<sup>4</sup>, M.J. Osterholt<sup>2</sup>, D.C. Walker<sup>1</sup>; <sup>1</sup>LSU AgCenter, Baton Rouge, LA, <sup>2</sup>Louisiana State University, Baton Rouge, LA, <sup>3</sup>LSU AgCenter, Alexandria, LA, <sup>4</sup>LSU, Baton Rouge, LA (3)

**Herbicide Resistant Palmer Amaranth (*Amaranthus palmeri*) in Row Crop Production Systems in Texas.** V. Singh\*<sup>1</sup>, R. Garetson<sup>1</sup>, S. Singh<sup>1</sup>, P.A. Dotray<sup>2</sup>, M. Bagavathiannan<sup>1</sup>; <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas Tech University, Lubbock, TX (4)

**Evaluation of Adjuvants on Quizalofop Activity in Provisia Rice when Mixed with ALS Herbicides.** C. Webster\*<sup>1</sup>, E. Webster<sup>2</sup>, B. McKnight<sup>3</sup>, S. Rustom<sup>3</sup>, D.C. Walker<sup>3</sup>, M.J. Osterholt<sup>2</sup>; <sup>1</sup>LSU, Baton Rouge, LA, <sup>2</sup>Louisiana State University, Baton Rouge, LA, <sup>3</sup>LSU AgCenter, Baton Rouge, LA (5)

**Comparison of Various Water and Tank Cleaner Rinse Sequences for Effective Removal of Dicamba from Contaminated Sprayer Systems.** Z.A. Carpenter\*, D.B.

Reynolds, A.B. Johnson; Mississippi State University, Mississippi State, MS (6)

**Glyphosate-resistant ragweed parthenium (*Parthenium hysterophorus* L.) confirmed in Texas, USA.** S. Singh\*, V. Singh, N. Subramanian, M. Bagavathiannan; Texas A&M University, College Station, TX (7)

**Rice Tolerance to Sequential Applications of Florpyrauxifen-benzyl.** H.E. Wright\*<sup>1</sup>, J.K. Norsworthy<sup>1</sup>, G.L. Priess<sup>1</sup>, R.C. Scott<sup>2</sup>, T. Barber<sup>3</sup>, J. Ellis<sup>4</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>Univ of Arkansas Coop Extn, Lonoke, AR, <sup>3</sup>University of Arkansas, Lonoke, AR, <sup>4</sup>Dow AgroSciences, Sterlington, LA (8)

**Utilizing Herbicide Resistant Cotton to Control PPO-resistant Palmer amaranth Postemergence.** W. Coffman\*<sup>1</sup>, T. Barber<sup>2</sup>, J.K. Norsworthy<sup>1</sup>, M.C. Castner<sup>1</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Lonoke, AR (9)

**Soybean Varietal Tolerance to Thien carbazole-methyl.** Z.D. Lancaster\*, J.K. Norsworthy, G.L. Priess, J.T. Richburg; University of Arkansas, Fayetteville, AR (10)

**Evaluation of Weed Control Programs in Grain Sorghum with Minimal or No Atrazine .** J.T. Richburg\*<sup>1</sup>, J.K. Norsworthy<sup>1</sup>, Z.D. Lancaster<sup>1</sup>, J. Patterson<sup>2</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>Auburn University, Auburn, AL (11)

**Grower Perspectives and Practices on Pasture and Hayfield Weed Management in Virginia.** W.C. Greene\*<sup>1</sup>, M.L. Flessner<sup>2</sup>, K. Pittman<sup>3</sup>; <sup>1</sup>Virginia Tech, Virginia Tech, VA, <sup>2</sup>Virginia Tech PPWS Dept., Blacksburg, VA, <sup>3</sup>Virginia Tech, Blacksburg, VA (12)

**Herbicide Carryover to Various Fall Planted Cover Crop Species.** L.S. Rector\*<sup>1</sup>, M.L. Flessner<sup>2</sup>, K. Pittman<sup>1</sup>, K.W. Bamber<sup>1</sup>, S.C. Beam<sup>1</sup>; <sup>1</sup>Virginia Tech, Blacksburg, VA, <sup>2</sup>Virginia Tech PPWS Dept., Blacksburg, VA (13)

**Plant Community Shifts Associated with Intensive Cogongrass Management.** S.F. Enloe\*<sup>1</sup>, J.S. Aulakh<sup>2</sup>, N.J. Loewenstein<sup>3</sup>, J.H. Miller<sup>4</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>The Connecticut Agricultural Experiment Station, Windsor, CT, <sup>3</sup>Auburn University, Auburn, AL, <sup>4</sup>USDA Forest Service Southern Research Station (emeritus), Auburn, AL (14)

**Critical Period for Weed Control in Flue-Cured Tobacco.** M. Inman\*, M. Vann, D. Jordan; North Carolina State University, Raleigh, NC (15)

**Soft Rush (*Juncus effusus*) Management in Carpetgrass Pastures.** R. Strahan\*<sup>1</sup>, E.K. Twidwell<sup>1</sup>, A.L. Granger<sup>2</sup>, M. Voitier<sup>1</sup>; <sup>1</sup>LSU AgCenter, Baton Rouge, LA, <sup>2</sup>LSU AgCenter, Abbeville, LA (16)

**The Influence of Sequential Order of Enlist Duo, Enlist One, and Liberty on Palmer amaranth Control.** D.C. Foster\*<sup>1</sup>, P.A. Dotray<sup>1</sup>, K.R. Russell<sup>1</sup>, M.L. Lovelace<sup>2</sup>; <sup>1</sup>Texas Tech University, Lubbock, TX, <sup>2</sup>Corteva agriscience, Lubbock, TX (17)

**A Weed Science Short Course for Modes of Action and Herbicide Resistance.** T. Mueller\*; University of Tennessee, Knoxville, TN (18)

**Dicamba Behavior Under Controlled Conditions.** T.I. Clark\*, T. Mueller; University of Tennessee, Knoxville, TN (19)

**Areawide Multitactic Weed Management Research and Outreach: Ongoing Activities in the Southern Region.** M. Bagavathiannan\*<sup>1</sup>, L.M. Lazaro<sup>2</sup>, J.K. Norsworthy<sup>3</sup>, L.E. Steckel<sup>4</sup>, J.A. Bond<sup>5</sup>, S. Mirsky<sup>6</sup>; <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Louisiana State University, Baton Rouge, LA, <sup>3</sup>University of Arkansas, Fayetteville, AR, <sup>4</sup>University of Tennessee, Jackson, TN, <sup>5</sup>Delta Research and Extension Center, Stoneville, MS, <sup>6</sup>USDA, Beltsville, MD (20)

**Allelopathic Rice Varieties for Weed suppression: Field Observations.** S.E. Abugho\*<sup>1</sup>, J. Samford<sup>2</sup>, A.M. McClung<sup>3</sup>, X. Zhou<sup>4</sup>, M. Bagavathiannan<sup>1</sup>; <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas A&M AgriLife Research, Sealy, TX, <sup>3</sup>USDA-ARS, Stuttgart, AR, <sup>4</sup>Texas A&M AgriLife Research, Beaumont, TX (21)

**Elevated CO<sub>2</sub> Effect on Controlling Velvetleaf and Johnsongrass with Tembotrione.** J.C. Argenta\*, S. Finlayson, T.C. Gentry, M. Bagavathiannan, K. Carson; Texas A&M University, College Station, TX (22)

**Hybridization Between Grain Sorghum and Johnsongrass: Preliminary Findings.** S. Shrestha\*<sup>1</sup>, C. Sias<sup>2</sup>, S. Ohadi<sup>3</sup>, W. Rooney<sup>1</sup>, G. Hodnett<sup>1</sup>; M. Bagavathiannan<sup>1</sup>; <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas A&M, College Station, TX (23)

**Sweet potato Response to Selected Herbicides. S.**

Chaudhari\*<sup>1</sup>, K.M. Jennings<sup>2</sup>, M. Shankle<sup>3</sup>, S.C. Smith<sup>2</sup>, M.D. Waldschmidt<sup>2</sup>, L. Moore<sup>2</sup>, K.C. Sims<sup>2</sup>; <sup>1</sup>NCSU, Raleigh, NC, <sup>2</sup>North Carolina State University, Raleigh, NC, <sup>3</sup>Mississippi State University, Pontotoc, MS (24)

**Effect of Soil-Applied Herbicide Timing on Cover Crop**

**Establishment .** J. Calhoun\*<sup>1</sup>, D.B. Reynolds<sup>2</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS (25)

**Evaluation of Brake Herbicide in the Enlist Cotton**

**System.** S.A. Nolte\*<sup>1</sup>, M. Matocha<sup>2</sup>; <sup>1</sup>Texas A&M AgriLife Extension, College Station, TX, <sup>2</sup>Texas AgriLife Extension Service, College Station, TX (26)

**Spray Volume and Application Rate of Trifloxysulfuron Affects Long-term Dallisgrass Control.**

G.M. Henry\*<sup>1</sup>, K.A. Tucker<sup>1</sup>, J.T. Brosnan<sup>2</sup>, G. Breeden<sup>3</sup>; <sup>1</sup>University of Georgia, Athens, GA, <sup>2</sup>Univ. of Tennessee, Knoxville, TN, <sup>3</sup>University of Tennessee, Knoxville, TN (27)

**Herbicide Desiccation Strategies for Reduced Skinning Injury on Spring Fresh Market Potato.**

F. Souza Krupek, P.J. Dittmar\*, L. Zotarelli, S. Sargent, D. Rowland; University of Florida, Gainesville, FL (28)

**Evaluation of Soybean for Hormetic Response to Extreme Low-Doses of Dicamba.**

M.C. Castner\*<sup>1</sup>, J.K. Norsworthy<sup>1</sup>, J.T. Richburg<sup>1</sup>, M.M. Houston<sup>2</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Fayetteville, AR (29)

**Impact of Nitrogen Rate and Timing on Weed and**

**Muskmelon Emergence and Growth.** A. Buzanini, P.J. Dittmar\*; University of Florida, Gainesville, FL (30)

**Preplant Kochia Control in Enlist Cotton.** U. Torres\*<sup>1</sup>, P.A. Dotray<sup>1</sup>, K.R. Russell<sup>1</sup>, G.K. Flusche Ogden<sup>1</sup>, M.L.

Lovelace<sup>2</sup>; <sup>1</sup>Texas Tech University, Lubbock, TX, <sup>2</sup>Corteva Agriscience, Lubbock, TX (31)

**On a Knife Edge: Conservation Agriculture and**

**Troublesome Weed Control.** A.J. Price\*; USDA-ARS, Auburn, AL (32)

**Evaluation of Fluridone in Peanut.** K.J. Price\*, S. Li; Auburn University, Auburn, AL (33)

**Broadleaf Weed Control in Rice with Saflufenacil-based Herbicide Mixtures.**

H. Edwards\*<sup>1</sup>, B. Lawrence<sup>1</sup>, T.L. Sanders<sup>2</sup>, J.D. Peeples Jr.<sup>3</sup>, N.G. Corban<sup>1</sup>, J.A.

Bond<sup>4</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Mississippi State University: Delta Research & Extension Center, Stoneville, MS, <sup>3</sup>Delta Research and Extension Center, Stoneville, MS, <sup>4</sup>Delta Research and Extension Center, Stoneville, MS (34)

**Rainfall Timing Effects on Pre-emergence Herbicide Efficacy in Soybean.** P.H. Urach Ferreira<sup>1</sup>, L.H. Merritt\*<sup>1</sup>, D.B. Reynolds<sup>1</sup>, T. Irby<sup>1</sup>, W.L. Ralston<sup>2</sup>, G. Kruger<sup>3</sup>, J. Ferguson<sup>1</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Bear's Best Atlanta, Suwanee, GA, <sup>3</sup>University of Nebraska-Lincoln, North Platte, NE (35)

**Peanut Response to Multiple Simulated Off-Target Events of Dicamba + Glyphosate.** E.P. Prostko\*; University of Georgia, Tifton, GA (36)

**Efficacy of Enlist Duo, Enlist One, and FeXapan for Control of Glyphosate-Resistant Palmer amaranth.** T. Bararpour\*<sup>1</sup>, R.R. Hale<sup>2</sup>, L. Walton<sup>3</sup>, J.A. Bond<sup>2</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Delta Research and Extension Center, Stoneville, MS, <sup>3</sup>Corteva Agriscience™, Agriculture Division of DowDuPont™, Indianapolis, IN (37)

**Efficacy of Enlist Duo, Enlist One, and FeXapan for Control of Glyphosate-Resistant Horseweed.** T. Bararpour\*<sup>1</sup>, R.R. Hale<sup>2</sup>, L. Walton<sup>3</sup>, J.W. Seale<sup>1</sup>, H. Edwards<sup>1</sup>, J.D. Peoples Jr.<sup>4</sup>, T. Sanders<sup>5</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Delta Research and Extension Center, Stoneville, MS, <sup>3</sup>Corteva Agriscience™, Agriculture Division of DowDuPont™, Indianapolis, IN, <sup>4</sup>Delta Research and Extension Center, Stoneville, MS, <sup>5</sup>Mississippi State University, Stoneville, MS (38)

**Evaluation of Residual Herbicides for Broad Spectrum Weed Control in Mississippi Peanut.** T. Bararpour\*<sup>1</sup>, J. Gore<sup>1</sup>, R.R. Hale<sup>2</sup>, D. Cook<sup>3</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Delta Research and Extension Center, Stoneville, MS, <sup>3</sup>Mississippi State University, Stoneville, MS (39)

**Using Pesticides Wisely.** A.S. Culpepper\*<sup>1</sup>, J.C. Vance<sup>2</sup>, T. Gray<sup>3</sup>, R. Keigwin<sup>4</sup>; <sup>1</sup>University of Georgia, Tifton, GA, <sup>2</sup>University of Georgia, Tifton, GA, <sup>3</sup>Georgia Department of Agriculture, Atlanta, GA, <sup>4</sup>U.S. EPA, Washington, DC (40)

**Efficacy of Weed Management Programs Containing Resicore in Mid-South Corn.** R.R. Hale\*<sup>1</sup>, T. Bararpour<sup>2</sup>, L. Walton<sup>3</sup>, J.A. Bond<sup>1</sup>, H. Edwards<sup>2</sup>, J. McCoy<sup>1</sup>, B.K. Perialisi<sup>1</sup>, J.D. Peoples Jr.<sup>4</sup>, T.L. Sanders<sup>5</sup>; <sup>1</sup>Delta Research and Extension Center, Stoneville, MS, <sup>2</sup>Mississippi State



University, Stoneville, MS, <sup>3</sup>Corteva Agriscience™, Agriculture Division of DowDuPont™, Indianapolis, IN, <sup>4</sup>Delta Research and Extension Center, Stoneville, MS, <sup>5</sup>Mississippi State University: Delta Research & Extension Center, Stoneville, MS (41)

**Evaluation of PRE and POST Applications of Metribuzin in Corn.** R.R. Hale\*<sup>1</sup>, T. Bararpour<sup>2</sup>, B.R. Golden<sup>1</sup>, J.W. Seale<sup>2</sup>, B. Lawrence<sup>2</sup>, B.K. Perialisi<sup>1</sup>, J. Mccoy<sup>1</sup>, N.G. Corban<sup>2</sup>; <sup>1</sup>Delta Research and Extension Center, Stoneville, MS, <sup>2</sup>Mississippi State University, Stoneville, MS (42)

**Italian ryegrass (*Lolium multiflorum*) Timing of Removal Effects on Corn (*Zea mays* L.) in Mississippi.** M.T. Wesley Jr.\*<sup>1</sup>, J.A. Bond<sup>2</sup>, E.J. Larson<sup>3</sup>, D.B. Reynolds<sup>4</sup>, J. Ferguson<sup>4</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Delta Research and Extension Center, Stoneville, MS, <sup>3</sup>Mississippi State University, Starkville, MS, <sup>4</sup>Mississippi State University, Mississippi State, MS (43)

**Preparation of Sickepod Extract with Potential Use as an Effective Deer Repellent.** Z. Yue\*<sup>1</sup>, T. Tseng<sup>2</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS (44)

**Screening Weedy Rice Germplasm for Tolerance to Various Abiotic Stresses.** S.D. Stallworth\*<sup>1</sup>, T. Tseng<sup>1</sup>, B.C. Schumaker<sup>2</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Mississippi State University, Starkville, MS (45)

**Genomics Regions Associated with Allelopathy in Weedy Rice.** B.C. Schumaker\*<sup>1</sup>, S. Shrestha<sup>1</sup>, T. Tseng<sup>2</sup>, N.R. Burgos<sup>3</sup>, S.D. Stallworth<sup>2</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS, <sup>3</sup>University of Arkansas, Fayetteville, AR (46)

**Weed Control Programs in Centipedegrass and Zoysiagrass Lawns Utilizing Pyrimisulfan and Penoxsulam.** P. McCullough\*; University of Georgia, Griffin, GA (47)

**Herbicide/Insecticide Co-Application Impacts in Xtend and Enlist Cotton.** D. Miller\*<sup>1</sup>, D.O. Stephenson<sup>2</sup>; <sup>1</sup>LSU AgCenter, St Joseph, LA, <sup>2</sup>LSU Ag Center, Alexandria, LA (48)

**Impact of Reduced Rates of Isoxaflutole on Soybean Growth and Yield.** D. Miller\*<sup>1</sup>, D.O. Stephenson<sup>2</sup>; <sup>1</sup>LSU AgCenter, St Joseph, LA, <sup>2</sup>LSU Ag Center, Alexandria, LA (49)

**Cutleaf evening primrose (*Oenothera laciniata*) and winter annual broadleaf control in wheat in Mississippi and Oklahoma.** J. Ferguson\*<sup>1</sup>, M.R. Manuchehri<sup>2</sup>, L.H. Merritt<sup>1</sup>, Z.R. Treadway<sup>1</sup>, K.L. Broster<sup>3</sup>, M.T. Wesley Jr.<sup>4</sup>, J. Childers<sup>2</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Oklahoma State University, Stillwater, OK, <sup>3</sup>Mississippi State University, Starkville, MS, <sup>4</sup>Mississippi State University, Mississippi State, MS (50)

**WSSA Advocates for Weed Controls that Protect Soybean Export Value.** C. Moseley<sup>1</sup>, L. Van Wychen\*<sup>2</sup>, H. Curlett<sup>3</sup>, J. Schroeder<sup>4</sup>, P. Laird<sup>1</sup>, S.P. Conley<sup>5</sup>; <sup>1</sup>Syngenta, Greensboro, NC, <sup>2</sup>WSSA, Alexandria, VA, <sup>3</sup>USDA-APHIS, Washington, DC, <sup>4</sup>USDA Office of Pest Management Policy, Arlington, VA, <sup>5</sup>University of Wisconsin-Madison, Madison, WI (51)

**Response of Grain Sorghum to Low Rate of Roundup, Liberty, and Gramoxone at Different Growth Stages.** J.W. Seale\*<sup>1</sup>, T. Bararpour<sup>1</sup>, R.R. Hale<sup>2</sup>, B. Lawrence<sup>1</sup>, N.G. Corban<sup>1</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Delta Research and Extension Center, Stoneville, MS (52)

**Weed Control Programs in Mississippi Peanut.** J.W. Seale\*<sup>1</sup>, T. Bararpour<sup>1</sup>, J.A. Bond<sup>2</sup>, J. Gore<sup>1</sup>, B.R. Golden<sup>2</sup>, R.R. Hale<sup>2</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Delta Research and Extension Center, Stoneville, MS (53)

**Field Scale Harvest Weed Seed Control in Virginia Wheat and Soybean.** S.C. Beam\*<sup>1</sup>, M.L. Flessner<sup>2</sup>, K.W. Bamber<sup>1</sup>, L.S. Rector<sup>1</sup>; <sup>1</sup>Virginia Tech, Blacksburg, VA, <sup>2</sup>Virginia Tech PPWS Dept., Blacksburg, VA (54)

**Dose response study to evaluate dicamba tolerance of wild tomato germplasm.** R. Zangouejinejad<sup>1</sup>, M. Alebrahim<sup>2</sup>, S. Shrestha<sup>3</sup>, T. Tseng\*<sup>4</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>University of Mohaghegh Ardabili, Ardabili, Iran, <sup>3</sup>Mississippi State University, Starkville, MS, <sup>4</sup>Mississippi State University, Mississippi State, MS (55)

**Screening and development of markers for weed suppressive trait in sweet potato.** B.C. Schumaker\*<sup>1</sup>, M. Ferreira<sup>2</sup>, G.A. Caputo<sup>1</sup>, S. Shrestha<sup>1</sup>, S.L. Meyers<sup>3</sup>, N.R. Burgos<sup>4</sup>, T. Tseng<sup>2</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS, <sup>3</sup>Mississippi State University, Mississippi State, MS, <sup>4</sup>University of Arkansas, Fayetteville, AR (56)

**Benoxacor and Fenclorim Safeners for Protecting Tomato from Herbicide Injury: Screening and Mechanisms of Action.** S. Duarte<sup>1</sup>, E. Castro<sup>1</sup>, B.M. Silva<sup>1</sup>, C.P. Moraes\*<sup>1</sup>,

B.C. Schumaker<sup>1</sup>, T. Tseng<sup>2</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS (57)

**Allelopathic Tomato: From Compounds to Molecular Markers.** B.M. Silva<sup>1</sup>, E. Castro<sup>1</sup>, S. Duarte<sup>1</sup>, C.P. Moraes\*<sup>1</sup>, B.C. Schumaker<sup>1</sup>, T. Tseng<sup>2</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS (58)

**Our Comprehensive Herbicide Stewardship Program at the University of Tennessee.** N. Rhodes\*<sup>1</sup>, L.E. Steckel<sup>2</sup>, T. Mueller<sup>3</sup>, D. McIntosh<sup>3</sup>; <sup>1</sup>U of TN 252 Ellington Bldg, Knoxville, TN, <sup>2</sup>University of Tennessee, Jackson, TN, <sup>3</sup>University of Tennessee, Knoxville, TN (59)

**Allelopathic Potential and Allelochemicals in Tomato: An Alternative for Sustainable Weed Management.** C.P. Moraes\*<sup>1</sup>, E. Castro<sup>1</sup>, S. Duarte<sup>1</sup>, B.M. Silva<sup>1</sup>, B.C. Schumaker<sup>1</sup>, R. Snyder<sup>2</sup>, T. Tseng<sup>3</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>Mississippi State University, Crystal Springs, MS, <sup>3</sup>Mississippi State University, Mississippi State, MS (60)

**Droplet Size Effects on Italian Ryegrass (*Lolium multiflorum*) control in Mississippi Corn (*Zea mays*).** M.T. Wesley Jr.<sup>1</sup>, Z.R. Treadway\*<sup>2</sup>, J.A. Bond<sup>3</sup>, E.J. Larson<sup>4</sup>, D.B. Reynolds<sup>2</sup>, J. Ferguson<sup>2</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS, <sup>3</sup>Delta Research and Extension Center, Stoneville, MS, <sup>4</sup>Mississippi State University, Starkville, MS (61)

**Glyphosate-resistant Italian Ryegrass Control with Residual Herbicides and Cover Crops.** Peeples, Lawrence, Edwards, Sanders, Corbon, Bond. J.D. Peeples Jr.\*; Delta Research and Extension Center, Stoneville, MS (62)

**Impact of Reduced Rates of Isoxaflutole on Growth and Yield of Cotton.** D. Miller\*<sup>1</sup>, D.O. Stephenson<sup>2</sup>; <sup>1</sup>LSU AgCenter, St Joseph, LA, <sup>2</sup>LSU Ag Center, Alexandria, LA (63)

**Sesame Tolerance to Bicyclopyrone.** J. Rose\*<sup>1</sup>, P.A. Dotray<sup>2</sup>, W. Grichar<sup>3</sup>; <sup>1</sup>Sesaco Corp, Austin, TX, <sup>2</sup>Texas Tech University, Lubbock, TX, <sup>3</sup>Texas A&M AgriLife Research, Yoakum, TX (64)

## **Graduate Student Posters (MS only)**

**\*PRESENTER † STUDENT POSTER CONTEST**

**†Critical Period of Weed Control for Italian Ryegrass in Wheat.** D.J. Contreras\*, W. Everman; North Carolina State University, Raleigh, NC (65)

**Control of Lanceleaf Ragweed (*Ambrosia bidentata*) in Summer Pastures.** J.D. Byrd<sup>1</sup>, D.P. Russell<sup>2</sup>, N.H. Thorne<sup>3</sup>, H.B. Quick\*<sup>2</sup>; <sup>1</sup>Mississippi State University, Miss State, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS, <sup>3</sup>Mississippi State University, Mississippi State University, MS (66)

**†Differences in seed set among diverse cytoplasmic male sterile *Sorghum bicolor* genotypes, following pollination with *Sorghum halepense*.** C. Sias\*, B.L. Young, D. Hathcoat, T. Mundt, G. Hodnett, W. Rooney, M. Bagavathiannan; Texas A&M University, College Station, TX (67)

**Feasibility of Harvest Weed Seed Control for Johnsongrass in Grain Sorghum.** B.L. Young\*<sup>1</sup>, D. Sarangi<sup>1</sup>, N. Korres<sup>2</sup>, L.M. Lazaro<sup>3</sup>, M.J. Walsh<sup>4</sup>, J.K. Norsworthy<sup>2</sup>, M. Bagavathiannan<sup>1</sup>; <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>University of Arkansas, Fayetteville, AR, <sup>3</sup>Louisiana State University, Baton Rouge, LA, <sup>4</sup>University of Sydney, Sydney, Australia (68)

**†Does Sensitivity among Soybean Cultivars Vary to a Low Dose of Dicamba?** O.W. France\*<sup>1</sup>, J.K. Norsworthy<sup>1</sup>, J. Ross<sup>2</sup>, M.C. Castner<sup>1</sup>, T. Barber<sup>2</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Lonoke, AR (69)

**Longevity of Control Achieved by Preplant and Preemergence Soil Residual Herbicides in Soybean.** G.L. Priess\*<sup>1</sup>, J.K. Norsworthy<sup>1</sup>, Z.D. Lancaster<sup>1</sup>, M.C. Castner<sup>1</sup>, T. Barber<sup>2</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Lonoke, AR (70)

**†Effect of Carrier Volume and Nozzle Selection on Glufosinate and 2,4-D Efficacy.** S. Davis\*<sup>1</sup>, D. Dodds<sup>1</sup>, L.X. Franca<sup>1</sup>, J. McNeal<sup>2</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Mississippi State University, Mississippi State, Mississippi, MS (71)

**Spray Efficacy and Drift Potential of an Unmanned Aerial Sprayer Influenced by Cross-wind, Flight Speed, and Nozzle Selection.** J.E. Hunter\*, R.E. Austin, R.J. Richardson,

T. Gannon, J.C. Neal, R.G. Leon; North Carolina State University, Raleigh, NC (72)

†**Effect of Soybean Variety and Maturity Group on Dicamba Injury.** M.A. Granadino\*, W. Everman, J. Sanders, D.J. Contreras, E.A. Jones; North Carolina State University, Raleigh, NC (73)

**Weed Efficacy and Economics of Bollgard II XtendFlex Cotton Systems.** B.M. DeLong\*<sup>1</sup>, W. Keeling<sup>2</sup>, P.A. Dotray<sup>3</sup>, J. Everitt<sup>4</sup>; <sup>1</sup>Texas A&M AgriLife, Lubbock, TX, <sup>2</sup>Texas A&M AgriLife Research, Lubbock, TX, <sup>3</sup>Texas Tech University, Lubbock, TX, <sup>4</sup>Monsanto Company, Shallowater, TX (74)

†**Effect of Spray Volume on the Efficacy of Asulam on Fall Panicum Control.** R. Mereb Negrisoli\*, D. Odero; University of Florida, Belle Glade, FL (75)

**Weed Management Systems in Auxin Tolerant Cotton.** K.R. Russell\*<sup>1</sup>, P.A. Dotray<sup>1</sup>, W. Keeling<sup>2</sup>; <sup>1</sup>Texas Tech University, Lubbock, TX, <sup>2</sup>Texas A&M AgriLife Research, Lubbock, TX (76)

†**Efficacy of Enlist, Xtend and Liberty Based Weed Control Systems in Cotton.** R. Vulchi\*<sup>1</sup>, S.A. Nolte<sup>1</sup>, M. Matocha<sup>2</sup>, G. Morgan<sup>1</sup>, J. McGinty<sup>1</sup>; <sup>1</sup>Texas A&M AgriLife Extension, College Station, TX, <sup>2</sup>Texas AgriLife Extension Service, College Station, TX (77)

†**Evaluation of Current Chemical Control Options for Smutgrass (*Sporobolus indicus* var. *indicus*) in Texas.** Z. Howard\*<sup>1</sup>, S.A. Nolte<sup>1</sup>, M. Matocha<sup>2</sup>; <sup>1</sup>Texas A&M AgriLife Extension, College Station, TX, <sup>2</sup>Texas AgriLife Extension Service, College Station, TX (78)

†**Evaluation of Rice Varietal Tolerances to Benzobicyclon Applied at Different Growth Stages.** J.A. Patterson\*, J.K. Norsworthy, C.B. Brabham, Z.D. Lancaster, G.L. Priess; University of Arkansas, Fayetteville, AR (79)

†**Operating Pressure and Nozzle Type Effects on Season Long Weed Control in Peanut (*Arachis hypogaea* L.).** K.L. Broster\*<sup>1</sup>, T.A. Baughman<sup>2</sup>, B. Zurweller<sup>3</sup>, J. Ferguson<sup>3</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>OSU- Institute for Agricultural BioScience, Ardmore, OK, <sup>3</sup>Mississippi State University, Mississippi State, MS (80)

†**Over-expression of *PPO2* ( $\Delta$ G210) Gene Mutation in Rice.** P.C. Lima\*, G. Rangani, S. Zhao, A.C. Langaro, V.

Srivastava, N.R. Burgos; University of Arkansas, Fayetteville, AR (81)

†**Palmer Amaranth Control Following Sequential Applications of XtendiMax and Liberty with and without Warrant.** G.K. Flusche Ogden\*<sup>1</sup>, P.A. Dotray<sup>1</sup>, J. Everitt<sup>2</sup>; <sup>1</sup>Texas Tech University, Lubbock, TX, <sup>2</sup>Monsanto Company, Shallowater, TX (82)

†**Sensitivity of Non-tolerant Wheat to Quizalofop-P-ethyl in Central Oklahoma.** J.T. Childers\*<sup>1</sup>, M.R. Manuchehri<sup>1</sup>, V. Kumar<sup>2</sup>, J. Crose<sup>1</sup>, R. Liu<sup>3</sup>; <sup>1</sup>Oklahoma State University, Stillwater, OK, <sup>2</sup>Kansas State University, Hays, KS, <sup>3</sup>Texas A&M, College Station, TX (83)

†**Weed Management Effects on Peanut Yield and Weed Populations the Following Year.** A.T. Hare\*, D. Jordan, R.G. Leon, M. Inman; North Carolina State University, Raleigh, NC (84)

## Graduate Student Posters (PhD only)

\***PRESENTER** † **STUDENT POSTER CONTEST**

†***Setaria parviflora* Management in Tall Fescue and Bermudagrass Pastures.** B. Greer\*; Auburn University, Auburn University, AL (85)

†**Effect of Flooding Period and Seed Burial Depth on Palmer amaranth (*Amaranthus palmeri*) Seed Germination.** L.X. Franca\*, D. Dodds, M. Plumblee, S. Davis; Mississippi State University, Mississippi State, MS (86)

**Flooding Depth and Burial Effect on Emergence of Five California Weedy Rice Biotypes.** L.B. Galvin\*<sup>1</sup>, M.B. Mesgaran<sup>1</sup>, k. al-khatib<sup>2</sup>; <sup>1</sup>University of California, Davis, Davis, CA, <sup>2</sup>UC Davis, Davis, CA (87)

†**Optimizing Selective Goosegrass Control in Bermudagrass Turf.** J. Brewer\*, S. Askew; Virginia Tech, Blacksburg, VA (88)

†**Palmer Amaranth Residual Control as Effected by Cover Crop and Herbicide.** C.M. Perkins\*<sup>1</sup>, K.W. Bradley<sup>2</sup>, J.K. Norsworthy<sup>3</sup>, D.B. Reynolds<sup>4</sup>, K.L. Gage<sup>5</sup>, S. Steckel<sup>6</sup>, B.G. Young<sup>7</sup>, L.E. Steckel<sup>6</sup>; <sup>1</sup>The University of Tennessee, Jackson, TN, <sup>2</sup>University of Missouri, Columbia, MO, <sup>3</sup>University of Arkansas, Fayetteville, AR, <sup>4</sup>Mississippi State University, Mississippi State, MS, <sup>5</sup>Southern Illinois Univeristy,

Carbondale, IL, <sup>6</sup>University of Tennessee, Jackson, TN, <sup>7</sup>Purdue University, West Lafayette, IN (89)

†**Distinguishing Weed Species in a Field Environment with the Utilization of UAVs and Spectral Imaging.** E.A. Jones\*, J. Sanders, W. Everman, D.J. Contreras, M.A. Granadino; North Carolina State University, Raleigh, NC (90)

**Optimizing chloroacetamide placement in dicamba-resistant cotton and soybean production systems.** J.T. Buol\*<sup>1</sup>, L.X. Franca<sup>1</sup>, D.B. Reynolds<sup>1</sup>, D. Dodds<sup>1</sup>, A. Mills<sup>2</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Monsanto Company, Collierville, TN (91)

†**Palmer amaranth (*Amaranthus palmeri*) and Thrips (*Thrips sp.*) Control with Various Dicamba + Insecticide Tank-mixes in Cotton (*Gossypium hirsutum*).** J. McNeal\*<sup>1</sup>, D. Dodds<sup>2</sup>, A. Catchot<sup>3</sup>, L.X. Franca<sup>2</sup>, S. Davis<sup>2</sup>; <sup>1</sup>Mississippi State University, Mississippi State, Mississippi, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS, <sup>3</sup>Mississippi State University, Starkville, MS (92)

**Fallow Period Nutsedge Management System Using Mechanical Tuber Removal and Glyphosate Followed by Cover Crop in Vegetable Production.** R.S. Randhawa\*, P.J. Dittmar; University of Florida, Gainesville, FL (93)

†**Evaluation of Cover Crops for Weed Suppression in Watermelon Grown with Plasticulture.** F.B. Browne\*, S. Li, K.J. Price; Auburn University, Auburn, AL (94)

†**Impact of Nozzle Type and Carrier Volume on Cotton Harvest Aid Efficacy.** S.A. Byrd<sup>1</sup>, B.R. Wilson\*<sup>2</sup>; <sup>1</sup>Texas A&M University AgriLife Extension, Lubbock, TX, <sup>2</sup>Oklahoma State University, Stillwater, NC (95)

†**Herbicide Efficacy as Influenced by Density and Duration of Shade.** D.J. Mahoney\*<sup>1</sup>, D. Jordan<sup>2</sup>, A.T. Hare<sup>2</sup>, R.G. Leon<sup>2</sup>; <sup>1</sup>North Carolina State Univ., Raleigh, NC, <sup>2</sup>North Carolina State University, Raleigh, NC (96)

†**Management of Perennial Grass ssp. in Louisiana Rice Production.** D.C. Walker\*<sup>1</sup>, E. Webster<sup>2</sup>, B. McKnight<sup>1</sup>, S. Rustom<sup>1</sup>, M.J. Osterholt<sup>2</sup>, C. Webster<sup>3</sup>; <sup>1</sup>LSU AgCenter, Baton Rouge, LA, <sup>2</sup>Louisiana State University, Baton Rouge, LA, <sup>3</sup>LSU, Baton Rouge, LA (97)

†**Influence of adjuvants and glyphosate formulations on droplet spreading on contrasting leaf surfaces.** M. Machado Nogueira\*<sup>1</sup>, F.C. Caratti<sup>2</sup>, N.R. Burgos<sup>1</sup>; <sup>1</sup>University of

Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Fayetteville, AR (98)

†**Peanut Injury Evaluation of PPO Inhibitor Herbicides as Affected by Application Timings and Surfactants.** K.J. Price\*, S. Li; Auburn University, Auburn, AL (99)

†**ALS Cross-Resistance and Multiple-Resistance in California Accessions of *Cyperus difformis*.** A. Ceseski\*, A. Godar, k. al-khatib; UC Davis, Davis, CA (100)

**Species Identification of Ryegrass Accessions from Texas Blacklands Based on GRIN Reference Samples.** A. Maity\*<sup>1</sup>, S.E. Abugho<sup>2</sup>, V. Singh<sup>2</sup>, N. Subramanian<sup>2</sup>, G.R. Smith<sup>2</sup>, M. Bagavathiannan<sup>2</sup>; <sup>1</sup>Texas A&M university, College Station Texas, College Station, TX, <sup>2</sup>Texas A&M University, College Station, TX (101)

†**The Effect of Non-chemical Management Practices on Weed Population Dynamics in Organic Grain Production.** S.L. Samuelson\*, N. Rajan, R.W. Schnell, M. Bagavathiannan; Texas A&M University, College Station, TX (102)

†**Use of Low Tunnel Field Trials to Understand Dicamba Volatility.** M.M. Zaccaro\*<sup>1</sup>, J.K. Norsworthy<sup>1</sup>, M.M. Houston<sup>2</sup>, C.B. Brabham<sup>1</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Fayetteville, AR (103)

**Preplant and Preemergence Palmer amaranth Control in Grain Sorghum for the Texas High Plains.** C.D. White\*<sup>1</sup>, J.L. Spradley<sup>2</sup>, W. Keeling<sup>3</sup>, B. Bean<sup>4</sup>; <sup>1</sup>Texas A&M AgriLife, Lubbock, TX, <sup>2</sup>Texas A&M Agrilife, LUBBOCK, TX, <sup>3</sup>Texas A&M AgriLife Research, Lubbock, TX, <sup>4</sup>United Sorghum Checkoff Program, Lubbock, TX (104)

**Relative Duration of Residual Control Among Preemergent Herbicides.** B. Sperry\*<sup>1</sup>, D.B. Reynolds<sup>1</sup>, J. Ferguson<sup>1</sup>, J.A. Bond<sup>2</sup>, G. Kruger<sup>3</sup>, A. Brown<sup>4</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Delta Research and Extension Center, Stoneville, MS, <sup>3</sup>University of Nebraska-Lincoln, North Platte, NE, <sup>4</sup>Mississippi State Chemical Laboratory, Mississippi State, MS (105)



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**MONDAY AFTERNOON FEBRUARY 4**

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**General Session**

LOCATION: Ballroom A, B  
TIME: 1:00 PM - 2:45 PM  
CHAIR/ James Holloway  
MODERATOR: Syngenta Crop Protection  
Jackson, TN  
CO-CHAIR: Robert Scott  
Univ of Arkansas Coop Extn  
Lonoke, AR

**\*SPEAKER**

- 1:00**     **Announcements and Welcome.** J. Holloway\*; Syngenta Crop Protection, Jackson, TN (106)
- 1:05**     **Welcome to Oklahoma.** J. Smith\*; Oklahoma State University, Stillwater, OK (107)
- 1:30**     **Presidential Address.** R.C. Scott\*; Univ of Arkansas Coop Extn, Lonoke, AR (108)
- 1:40**     **SWSS Endowment Enrichment Scholarship - Zachary Lancaster - Bayer.** Z.D. Lancaster\*; University of Arkansas, Fayetteville, AR (109)
- 1:55**     **SWSS Endowment Enrichment Scholarship - Wykle Greene - Syngenta.** W.C. Greene\*; Virginia Tech, Virginia Tech, VA (110)
- 2:10**     **SWSS Endowment Enrichment Scholarship - Cole Smith - Valent.** S.C. Smith\*; North Carolina State University, Raleigh, NC (111)
- 2:25**     **Washington Policy Update.** L. Van Wychen\*; WSSA, Alexandria, VA (112)
- 2:45**     **Break**

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**MONDAY AFTERNOON FEBRUARY 4**

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**Use of New Technologies in Weed Science**

LOCATION: Ballroom A, B  
TIME: 3:00 PM - 5:00 PM  
CHAIR/ James Holloway  
MODERATOR: Syngenta Crop Protection  
Jackson, TN  
CO-CHAIR: Robert Scott  
Univ of Arkansas Coop Extn  
Lonoke, AR

**\*SPEAKER**

- 3:00 Use of Social Media in Agriculture Extension.** M. Hightower\*; University of Arkansas, Little Rock, AR (113)
- 3:20 Weeding Out Poor Video Practices.** K. Rodtnick\*; University of Arkansas, Little Rock, AR (114)
- 3:40 Taking Effective Scientific Photographs and Analyzing Digital Images and Videos in Weed Science Research.** S. Askew\*; Virginia Tech, Blacksburg, VA (115)
- 4:00 Broadcast TV & Beyond: 10 Years of Delivering Engaging Content at SUNUP.** L. Stout\*<sup>1</sup>, D. Deken<sup>1</sup>, T.A. Baughman<sup>2</sup>; <sup>1</sup>SUNUP-TV, Stillwater, OK, <sup>2</sup>OSU- Institute for Agricultural BioScience, Ardmore, OK (116)
- 4:20 An Eye in the Sky - Moving Beyond Visual Ratings in Crop Science.** L.C. Purcell\*, G.L. Priess, J.K. Norsworthy, H.E. Wright; University of Arkansas, Fayetteville, AR (117)
- 4:40 New and Emerging Technologies for Rights-of-Way.** J.D. Byrd\*; Mississippi State University, Miss State, MS (118)

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**MONDAY AFTERNOON FEBRUARY 4**

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**SWSS Business Meeting**

LOCATION: Ballroom A, B  
TIME: 5:00 PM - 6:00 PM  
CHAIR: Robert Scott  
Univ of Arkansas Coop Extn  
Lonoke, AR  
CO-CHAIR/ James Holloway  
MODERATOR: Syngenta Crop Protection  
Jackson, TN

**SWSS Weed Contest Committee Meeting**

*All invited immediately following the Business Meeting*

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**TUESDAY MORNING FEBRUARY 5**

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**Graduate Student Contest Judges Breakfast**

LOCATION: Meeting Room 18  
TIME: 6:00 AM - 8:00 AM

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**TUESDAY MORNING FEBRUARY 5**

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**Graduate Student Contest Workroom**

LOCATION: Meeting Room 18  
TIME: 8:00 AM - 5:00 PM

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**TUESDAY MORNING FEBRUARY 5**

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**Graduate Student Oral Papers (MS Only)**

LOCATION: Meeting Room 19, 20  
TIME: 8:00 AM - 5:00 PM  
CHAIR/ Pete Eure  
MODERATOR: Syngenta Crop Protection  
Richmond, TX

**\*SPEAKER † STUDENT CONTEST**

- 8:00 †Active Ingredient Effects on Italian Ryegrass (*Lolium multiflorum*) Control in Mississippi Corn (*Zea mays* L.).** M.T. Wesley Jr.\*<sup>1</sup>, J.A. Bond<sup>2</sup>, E.J. Larson<sup>3</sup>, D.B. Reynolds<sup>4</sup>, J. Ferguson<sup>4</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Delta Research and Extension Center, Stoneville, MS, <sup>3</sup>Mississippi State University, Starkville, MS, <sup>4</sup>Mississippi State University, Mississippi State, MS (119)
- 8:15 †Assessing the Potential for Enlist One to Volatilize and Injure Non-Enlist Cotton.** G.L. Priess\*<sup>1</sup>, J.K. Norsworthy<sup>1</sup>, Z.D. Lancaster<sup>1</sup>, T. Barber<sup>2</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Lonoke, AR (120)
- 8:30 †Evaluation of Corn Tolerance to Postemergence-applied PSII Herbicides.** J.T. Richburg\*<sup>1</sup>, J.K. Norsworthy<sup>1</sup>, T. Barber<sup>2</sup>, M.C. Castner<sup>1</sup>, M.M. Zaccaro<sup>1</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Lonoke, AR (121)
- 8:45 †Deactivation of 2,4-D and Dicamba using the Fenton Reaction using Cotton (*Gossypium hirsutum*) and Soybean (*Glycine max*) as Bio-Indicators.** G. Oakley\*, D.B. Reynolds, Z.A. Carpenter; Mississippi State University, Mississippi State, MS (122)
- 9:00 †Browntop millet (*Urochloa ramosa*) and Broadleaf Signalgrass (*Urochloa platyphylla*) Competition Effects on Growth and Yield of Peanut (*Arachis hypogaea*) Managed with Prohexadione Calcium.** Z.R. Treadway\*, B. Zurweller, J. Ferguson; Mississippi State University, Mississippi State, MS (123)

- 9:15 †Changes to Cotton Boll Distribution Following Low Rates of Dicamba at Different Growth Stages.** K.R. Russell\*, P.A. Dotray, G.L. Ritchie; Texas Tech University, Lubbock, TX (124)
- 9:30 †Interaction of Seedling Vigor, Planting date, and Flumioxazin on Peanut Growth.** N.L. Hurdle\*<sup>1</sup>, T.L. Grey<sup>2</sup>, C. Pilon<sup>1</sup>, E.P. Prostko<sup>1</sup>, W.S. Monfort<sup>1</sup>; <sup>1</sup>University of Georgia, Tifton, GA, <sup>2</sup>University of Georgia, Tifton, GA (125)
- 9:45 Break**
- 10:00 †Do Contact Herbicides Exacerbate Injury Caused by Dicamba on Non-Dicamba-Resistant Soybean?** M.C. Castner\*, J.K. Norsworthy, G.L. Priess, M.M. Zaccaro; University of Arkansas, Fayetteville, AR (126)
- 10:15 †Assessment of Preemergence Herbicides for Control of PPO-resistant Palmer amaranth in Cotton.** W. Coffman\*<sup>1</sup>, T. Barber<sup>2</sup>, J.K. Norsworthy<sup>1</sup>, G.L. Priess<sup>1</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Lonoke, AR (127)
- 10:30 †Allelopathy in Weedy Rice: A Resource for Breeding Allelopathic Rice Cultivars.** T. Tseng<sup>1</sup>, B.C. Schumaker\*<sup>2</sup>, N.R. Burgos<sup>3</sup>, E. Castro<sup>2</sup>, S. Shrestha<sup>2</sup>, S.D. Stallworth<sup>1</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Mississippi State University, Starkville, MS, <sup>3</sup>University of Arkansas, Fayetteville, AR (128)
- 10:45 †Comparison of Burndown Weed Control by Halaxifen-methyl, 2,4-D, and Dicamba.** M.C. Askew\*<sup>1</sup>, C.W. Cahoon<sup>2</sup>, A. York<sup>3</sup>, M.L. Flessner<sup>4</sup>; <sup>1</sup>Virginia Tech, Eure, NC, <sup>2</sup>North Carolina State University, Raleigh, NC, <sup>3</sup>North Carolina State University, Cary, NC, <sup>4</sup>Virginia Tech PPWS Dept., Blacksburg, VA (129)
- 11:00 †Cucumber Tolerance to Glufosinate Applied Preplant or Preemergence.** T.M. Randell\*<sup>1</sup>, J.C. Vance<sup>1</sup>, A.S. Culpepper<sup>2</sup>; <sup>1</sup>University of Georgia, Tifton, GA, <sup>2</sup>University of Georgia, Tifton, GA (130)
- 11:15 †Evaluation of Florpyrauxifen-benzyl-containing Weed Control Programs for Furrow-irrigated Rice.** H.E. Wright\*<sup>1</sup>, J.K. Norsworthy<sup>1</sup>, Z.D. Lancaster<sup>1</sup>, R.C. Scott<sup>2</sup>, J. Ellis<sup>3</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>Univ of Arkansas Coop

Extn, Lonoke, AR, <sup>3</sup>Dow AgroSciences, Sterlington, LA (131)

- 11:30 †Efficacy of Tank Mixes Containing Linuron for Palmer Amaranth Control in Sweet Potato.** L. Moore\*, K.M. Jennings, D. Monks, S.C. Smith, M.D. Waldschmidt, K.C. Sims; North Carolina State University, Raleigh, NC (132)
- 11:45 †Quizalofop Activity when Mixed with Reduced Rates of Halosulfuron in Provisia Rice.** C. Webster\*<sup>1</sup>, E. Webster<sup>2</sup>, B. McKnight<sup>3</sup>, M.J. Osterholt<sup>2</sup>, S. Rustom<sup>3</sup>, D.C. Walker<sup>3</sup>; <sup>1</sup>LSU, Baton Rouge, LA, <sup>2</sup>Louisiana State University, Baton Rouge, LA, <sup>3</sup>LSU AgCenter, Baton Rouge, LA (133)
- 12:00 Lunch**
- 1:00 †Response of Hybrid Bermudagrass (*Cynodon dactylon*) to Glyphosate Application Timing and Rate.** C.L. Darling\*<sup>1</sup>, B. Sellers<sup>1</sup>, J. Ferrell<sup>2</sup>, D. Odero<sup>3</sup>, J.C. Dubeux<sup>4</sup>; <sup>1</sup>University of Florida, Ona, FL, <sup>2</sup>University of Florida, Gainesville, FL, <sup>3</sup>University of Florida, Belle Glade, FL, <sup>4</sup>Committee, Marianna, FL (134)
- 1:15 †Integrated Management of Johnsongrass in Inzen Sorghum.** B.L. Young\*<sup>1</sup>, N. Korres<sup>2</sup>, L.M. Lazaro<sup>3</sup>, M.J. Walsh<sup>4</sup>, J.K. Norsworthy<sup>2</sup>, M. Bagavathiannan<sup>1</sup>; <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>University of Arkansas, Fayetteville, AR, <sup>3</sup>Louisiana State University, Baton Rouge, LA, <sup>4</sup>University of Sydney, Sydney, Australia (135)
- 1:30 †Flue-Cured Tobacco Tolerance to S-metolachlor.** A. Clapp\*, M. Vann, C.W. Cahoon, M. Inman; North Carolina State University, Raleigh, NC (136)
- 1:45 Critical Period of Weed Control for grass species in Grain Sorghum.** D.J. Contreras\*, W. Everman; North Carolina State University, Raleigh, NC (137)
- 2:00 †Droplet Size and Drift Potential of Roadside Spray Nozzles.** H.B. Quick\*<sup>1</sup>, D.P. Russell<sup>1</sup>, J.D. Byrd<sup>2</sup>, N.H. Thorne<sup>3</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Mississippi State University, Miss State, MS, <sup>3</sup>Mississippi State University, Mississippi State University, MS (138)

- 2:15 †Evaluating Time of Day Effects on Broadleaf Weed Control in XtendFlex® Cotton.** J.R. Kalina\*<sup>1</sup>, C.B. Corkern<sup>2</sup>, T.L. Grey<sup>3</sup>, N.T. Basinger<sup>4</sup>, D.G. Shilling<sup>5</sup>; <sup>1</sup>University of Georgia, Williamson, GA, <sup>2</sup>Bayer Crop Science, Alapha, GA, <sup>3</sup>University of Georgia, Titon, GA, <sup>4</sup>The University of Georgia, Athens, GA, <sup>5</sup>University of Georgia, Athens, GA (139)
- 2:30 †Influence of Cover Crop Mixture, Cover Crop Placement, and Herbicides on Weed Control in Cotton.** A.M. Johnson\*<sup>1</sup>, A.J. Price<sup>2</sup>; <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>USDA-ARS, Auburn, AL (140)
- 2:45 Break**
- 3:00 †Droplet Size Effects on Pre-Emergence Herbicide Efficacy in Soybeans.** P.H. Urach Ferreira<sup>1</sup>, L.H. Merritt\*<sup>1</sup>, D.B. Reynolds<sup>1</sup>, T. Irby<sup>1</sup>, G. Kruger<sup>2</sup>, J. Ferguson<sup>1</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>University of Nebraska-Lincoln, North Platte, NE (141)
- 3:15 †Winter Annual Weed Control with Early Planted Cover Crops and Residual Herbicides.** L.S. Rector\*<sup>1</sup>, M.L. Flessner<sup>2</sup>, K.W. Bamber<sup>1</sup>, K. Pittman<sup>1</sup>; <sup>1</sup>Virginia Tech, Blacksburg, VA, <sup>2</sup>Virginia Tech PPWS Dept., Blacksburg, VA (142)
- 3:30 †Soybean Performance Following Exposure to Dicamba at Multiple Growth Stages.** N.G. Corban\*<sup>1</sup>, B. Lawrence<sup>1</sup>, H. Edwards<sup>1</sup>, J.D. Peoples Jr.<sup>2</sup>, T. Sanders<sup>3</sup>, D.B. Reynolds<sup>4</sup>, J.A. Bond<sup>5</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Delta Research and Extension Center, Stoneville, MS, <sup>3</sup>Mississippi State University, Stoneville, MS, <sup>4</sup>Mississippi State University, Mississippi State, MS, <sup>5</sup>Delta Research and Extension Center, Stoneville, MS (143)
- 3:45 †Integration of UAV-based Weed Mapping with a UAV-sprayer for Increasing Weed Control Efficiency.** J.E. Hunter\*, R.E. Austin, R.J. Richardson, T. Gannon, J.C. Neal, R.G. Leon; North Carolina State University, Raleigh, NC (144)
- 4:00 †Response of Peanut to Low Rates of Dicamba at Different Growth Stages.** J.W. Seale\*<sup>1</sup>, T. Bararpour<sup>1</sup>, J. Gore<sup>1</sup>, J.A. Bond<sup>2</sup>, B.R. Golden<sup>2</sup>, R.R. Hale<sup>2</sup>; <sup>1</sup>Mississippi State University, Stoneville,

MS, <sup>2</sup>Delta Research and Extension Center,  
Stoneville, MS (145)

- 4:15 Differential Response of Cowpea Varieties to Preplant and Preemergence Herbicides.** P.C. Lima\*, N.R. Burgos, A. Shi, L. Benedetti; University of Arkansas, Fayetteville, AR (146)
- 4:30 Planting Date Effect on Soybean Response to Dicamba.** M.A. Granadino\*, W. Everman, J. Sanders, D.J. Contreras, E.A. Jones; North Carolina State University, Raleigh, NC (147)
- 4:45 Influence of Carrier Volume, Nozzle Type, and Weed Size on Glufosinate Efficacy.** J. Calhoun\*<sup>1</sup>, D.B. Reynolds<sup>2</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS (148)

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***TUESDAY MORNING FEBRUARY 5***

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**Graduate Student Oral Papers (PhD only)**

LOCATION: Meeting Room 16, 17  
TIME: 8:00 AM - 3:15 PM  
CHAIR/ Kelly Backscheider  
MODERATOR: DuPont  
Franklin, IN

**\*SPEAKER † STUDENT CONTEST**

- 8:00 †Cereal Rye Cover Crop Termination Timing Affect on Common Ragweed in Virginia Soybean.** S.C. Beam\*<sup>1</sup>, M.L. Flessner<sup>2</sup>, S. Mirsky<sup>3</sup>; <sup>1</sup>Virginia Tech, Blacksburg, VA, <sup>2</sup>Virginia Tech PPWS Dept., Blacksburg, VA, <sup>3</sup>USDA, Beltsville, MD (149)
- 8:15 †Evaluation of an Integrated Weed Management (IWM) program for control of Giant Smutgrass in 'Pensacola' Bahiagrass Pastures.** J.C. Dias\*<sup>1</sup>, B. Sellers<sup>2</sup>, J. Ferrell<sup>3</sup>, S.F. Enloe<sup>3</sup>, J.M. Vendramini<sup>4</sup>, P. Moriel<sup>4</sup>; <sup>1</sup>University of Florida, ONA, FL, <sup>2</sup>University of Florida, Ona, FL, <sup>3</sup>University of Florida, Gainesville, FL, <sup>4</sup>University of Florida, Ona, FL (150)



- 8:30 †Determining Dicamba Retention in Spray Tanks and its Impact on Flue-Cured Tobacco.** M. Inman\*, M. Vann, T. Gannon, D. Jordan, K.M. Jennings; North Carolina State University, Raleigh, NC (151)
- 8:45 †Genetic Diversity of Phenotypically Distinct Goosegrass (*Eleusine indica*) Ecotypes.** B. Kerr\*, B. McCarty, C. Saski; Clemson University, Clemson, SC (152)
- 9:00 †Effect of Carrier Volume and Spray Quality on Soybean Response to Dicamba.** B. Sperry\*<sup>1</sup>, J. Calhoun<sup>2</sup>, D.B. Reynolds<sup>1</sup>, J. Ferguson<sup>1</sup>, G. Kruger<sup>3</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Mississippi State University, Starkville, MS, <sup>3</sup>University of Nebraska-Lincoln, North Platte, NE (153)
- 9:15 †Characterization of Functional Trait Diversity Among Ryegrass (*Lolium spp.*) Accessions from Texas Blacklands.** A. Maity\*<sup>1</sup>, S.E. Abugho<sup>2</sup>, V. Singh<sup>2</sup>, N. Subramanian<sup>2</sup>, G.R. Smith<sup>2</sup>, M. Bagavathiannan<sup>2</sup>; <sup>1</sup>Texas A&M university, College Station Texas, College Station, TX, <sup>2</sup>Texas A&M University, College Station, TX (154)
- 9:30 †Evaluating Effectiveness of Dicamba Removal from Contaminated Sprayers Following Various Incubation Periods from Contamination to Clean Out.** Z.A. Carpenter\*, D.B. Reynolds, A.B. Johnson; Mississippi State University, Mississippi State, MS (155)
- 9:45 Break**
- 10:00 †Genetic Diversity, Molecular Markers, and Genes for Abiotic Stress Tolerance in Weedy Rice.** S.D. Stallworth\*<sup>1</sup>, T. Tseng<sup>1</sup>, S. Shrestha<sup>2</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Mississippi State University, Starkville, MS (156)
- 10:15 †Detecting and Classifying Weeds in Row Crops Using Spectral and Contextual Information.** B.B. Sapkota\*<sup>1</sup>, V. Singh<sup>2</sup>, D. Cope<sup>1</sup>, M. Bagavathiannan<sup>2</sup>; <sup>1</sup>Texas A&M University, College station, TX, <sup>2</sup>Texas A&M University, College Station, TX (157)

- 10:30 †Aquatic Weed Response to Titrated Application Rates of Florpyrauxifen-Benzyl in Louisiana Rice.** S. Rustom\*<sup>1</sup>, E. Webster<sup>2</sup>, B. McKnight<sup>1</sup>, C. Webster<sup>3</sup>, D.C. Walker<sup>1</sup>; <sup>1</sup>LSU AgCenter, Baton Rouge, LA, <sup>2</sup>Louisiana State University, Baton Rouge, LA, <sup>3</sup>LSU, Baton Rouge, LA (158)
- 10:45 †Non-synthetic Herbicides to Control Rice Weeds: Do They Work?** S.E. Abugho\*<sup>1</sup>, A.V. Pagenotto<sup>2</sup>, X. Zhou<sup>3</sup>, M. Bagavathiannan<sup>1</sup>; <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>University of Sao Paulo, Sao Paulo, Brazil, <sup>3</sup>Texas A&M AgriLife Research, Beaumont, TX (159)
- 11:00 †Improved Herbicide Selectivity in Tomato by Safening Action of Benoxacor and Fenclorin.** C.P. Moraes\*<sup>1</sup>, E. Castro<sup>1</sup>, S. Duarte<sup>1</sup>, B.M. Silva<sup>1</sup>, B.C. Schumaker<sup>1</sup>, N.R. Burgos<sup>2</sup>, T. Tseng<sup>3</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>University of Arkansas, Fayetteville, AR, <sup>3</sup>Mississippi State University, Mississippi State, MS (160)
- 11:15 †Hayfield Sward Response to Herbicide Impregnated Dry Fertilizer.** W.C. Greene\*<sup>1</sup>, M.L. Flessner<sup>2</sup>, K.W. Bamber<sup>3</sup>, P.L. Burch<sup>4</sup>, S. Flynn<sup>5</sup>; <sup>1</sup>Virginia Tech, Virginia Tech, VA, <sup>2</sup>Virginia Tech PPWS Dept., Blacksburg, VA, <sup>3</sup>Virginia Tech, Blacksburg, VA, <sup>4</sup>Corteva Agriscience, Christiansburg, VA, <sup>5</sup>Corteva Agriscience, Lees Summit, MO (161)
- 11:30 †Fomesafen Degradation from the Surface of Low-Density Polyethylene Mulch.** K.M. Eason\*<sup>1</sup>, T.L. Grey<sup>2</sup>, A.S. Culpepper<sup>3</sup>; <sup>1</sup>The University of Georgia, Tifton, GA, <sup>2</sup>University of Georgia, Tifton, GA, <sup>3</sup>University of Georgia, Tifton, GA (162)
- 11:45 †Weed Management in Conventional and Conservation Tillage Systems with Bollgard II XtendFlex Cotton.** C.D. White\*<sup>1</sup>, W. Keeling<sup>2</sup>, P.A. Dotray<sup>3</sup>; <sup>1</sup>Texas A&M AgriLife, Lubbock, TX, <sup>2</sup>Texas A&M AgriLife Research, Lubbock, TX, <sup>3</sup>Texas Tech University, Lubbock, TX (163)
- 12:00 Lunch**
- 1:00 †Regional Zoysiagrass Response to Glyphosate and Glufosinate Applied at Variable Timings in Spring.** J.M. Craft\*, S. Askew; Virginia Tech, Blacksburg, VA (164)

- 1:15 Evaluation of the Suitability of 13 Winter Cover Crop Species for Southeast Texas.** S.L. Samuelson\*, J. Hernandez, M. Bagavathiannan; Texas A&M University, College Station, TX (165)
- 1:30 Prevalence and distribution of PPO mutations on Palmer amaranth populations from the US mid-south.** M. Machado Noguera\*<sup>1</sup>, J.W. Heiser<sup>2</sup>, T. Bararpour<sup>3</sup>, L.E. Steckel<sup>4</sup>, R.L. Nichols<sup>5</sup>, S.C. Beam<sup>6</sup>, L. Benedetti<sup>1</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Missouri, Portageville, MO, <sup>3</sup>Mississippi State University, Stoneville, MS, <sup>4</sup>University of Tennessee, Jackson, TN, <sup>5</sup>Cotton Incorporated, Cary, NC, <sup>6</sup>Virginia Tech, Blacksburg, VA (166)
- 1:45 Drilling Depth Effects on Crop Stand and Weed Control in California Rice.** A. Ceseski\*, A. Godar, k. al-khatib; UC Davis, davis, CA (167)
- 2:00 Sweetpotato Tolerance to Indaziflam.** S.C. Smith\*<sup>1</sup>, K.M. Jennings<sup>1</sup>, D. Monks<sup>1</sup>, M. Schwarz<sup>2</sup>, L. Moore<sup>1</sup>, M.D. Waldschmidt<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>Bayer U.S. LLC, Research Triangle Park, NC (168)
- 2:15 †Reducing the Off-target Movement of Dicamba with See and Spray Technology.** Z.D. Lancaster\*<sup>1</sup>, J.K. Norsworthy<sup>1</sup>, J.T. Richburg<sup>1</sup>, M.M. Houston<sup>2</sup>, T. Barber<sup>3</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Fayetteville, AR, <sup>3</sup>University of Arkansas, Lonoke, AR (169)
- 2:30 Sorgoleone has Varying Efficacy on Select Wheat (*Triticum aestivum* ssp.) Cultivars and Weed Species.** E.A. Jones\*, M. Bansal, W. Everman, J. Sanders, D.J. Contreras, M.A. Granadino; North Carolina State University, Raleigh, NC (170)
- 2:45 Palmer amaranth (*Amaranthus palmeri*) and Tarnished Plant Bug (*Lygus Lineolaris*) Control with Various Dicamba + Insecticide Tank-Mixes in Cotton (*Gossypium hirsutum*).** J. McNeal\*<sup>1</sup>, D. Dodds<sup>2</sup>, A. Catchot<sup>3</sup>, L.X. Franca<sup>2</sup>, S. Davis<sup>2</sup>; <sup>1</sup>Mississippi State University, Mississippi State, Mississippi, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS, <sup>3</sup>Mississippi State University, Starkville, MS (171)

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**TUESDAY MORNING FEBRUARY 5**

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**Weed Biology and Ecology**

LOCATION: Meeting Room 14,15  
TIME: 8:15 AM - 9:45 AM  
CHAIR/  
MODERATOR: Matthew Cutulle  
Clemson University  
Charleston, SC  
CO-CHAIR: Angela Post  
North Carolina State University  
Raleigh, NC

**\*SPEAKER**

- 8:15 Root System Architecture and Genes Associated with Allelopathy in Weedy Rice.** A.P. Tucker\*<sup>1</sup>, B.C. Schumaker<sup>1</sup>, S. Shrestha<sup>1</sup>, S.D. Stallworth<sup>2</sup>, N.R. Burgos<sup>3</sup>, T. Tseng<sup>2</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS, <sup>3</sup>University of Arkansas, Fayetteville, AR (172)
- 8:30 Sicklepod Extract as an Effective Deer Repellent: From Captive Facility to Field Testing.** Z. Yue\*<sup>1</sup>, T. Tseng<sup>2</sup>, M. Lashley<sup>1</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS (173)
- 8:45 Response of diverse red rice Lines to Alternating Wetting and Drying (AWD) and Conventional Flood-Irrigation Practices.** D. Gealy\*<sup>1</sup>, J. Rohila<sup>2</sup>; <sup>1</sup>USDA ARS DBNRRC, Stuttgart, AR, <sup>2</sup>USDA ARS DBNRRC, Stuttgart, AR (174)
- 9:00 Characterization of F<sub>1</sub> Hybrid Progenies of *Sorghum bicolor* and its Weedy Congener, *Sorghum halepense*.** C. Sias\*, S. Ohadi, G. Hodnett, W. Rooney, M. Bagavathiannan; Texas A&M University, College Station, TX (175)
- 9:15 Seed Viability of Palmer Amaranth as Affected by Herbicide Applications.** D. Sarangi\*<sup>1</sup>, K.M. Werner<sup>1</sup>, B. Pilipovic<sup>1</sup>, P.A. Dotray<sup>2</sup>, M.V. Bagavathiannan<sup>1</sup>; <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas Tech University, Lubbock, TX (176)

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**TUESDAY MORNING FEBRUARY 5**

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**Weed Management in Pastures and Rangeland**

LOCATION: Meeting Room 14,15  
TIME: 10:00 AM - 12:00 PM  
CHAIR/ John Byrd  
MODERATOR: Mississippi State University  
Miss State, MS  
CO-CHAIR: Jason Belcher  
Bayer Crop Protection  
Auburn, AL

**\*SPEAKER**

- 10:00 Is Glyphosate an Option for Selective Control of Smutgrass in Bahiagrass Pastures in Florida?** B. Sellers\*<sup>1</sup>, J.C. Dias<sup>2</sup>; <sup>1</sup>University of Florida, Ona, FL, <sup>2</sup>University of Florida, ONA, FL (177)
- 10:15 Grass Weed Management in Southern Pastures / Spray Fields Using Indaziflam.** L.S. Warren\*<sup>1</sup>, D. Spak<sup>2</sup>; <sup>1</sup>Warren QA and Weed Research, Surf City, NC, <sup>2</sup>Bayer Crop Science, RTP, NC (178)
- 10:30 Managing Brunswickgrass in Bahiagrass Seed Production Fields in Florida.** C.T. Cooper\*<sup>1</sup>, B. Sellers<sup>2</sup>; <sup>1</sup>UF/IFAS Extension Citrus County, Lecanto, FL, <sup>2</sup>University of Florida, Ona, FL (179)
- 10:45 Weed Control and Bermudagrass Tolerance to Indaziflam in Bermudagrass Hay Production.** J. Belcher\*<sup>1</sup>, D. Spak<sup>2</sup>; <sup>1</sup>Bayer CropScience, Auburn, AL, <sup>2</sup>Bayer CropScience, RTP, NC (180)
- 11:00 Common Cocklebur and Common Ragweed Control with Saflufenacil and Halosulfuron in Cool-Season Pastures.** J. Green\*<sup>1</sup>, K. Vanzant<sup>2</sup>; <sup>1</sup>Univ of Kentucky, Lexington, KY, <sup>2</sup>Univ of Kentucky, Versailles, KY (181)
- 11:15 Weed Control and Crop Safety with Indaziflam in Pastures.** M. Matocha\*<sup>1</sup>, S.A. Nolte<sup>2</sup>, J.R. Jackson<sup>3</sup>; <sup>1</sup>Texas AgriLife Extension Service, College Station, TX, <sup>2</sup>Texas A&M AgriLife Extension, College Station, TX, <sup>3</sup>Texas A&M AgriLife Extension, Stephenville, TX (182)



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**TUESDAY AFTERNOON FEBRUARY 5**

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**Educational Aspects of Weed Control**

LOCATION: Meeting Room 14,15  
TIME: 1:00 PM - 1:15 PM  
CHAIR/  
MODERATOR: Clyde Smith  
UPI  
Marianna, FL  
CO-CHAIR: John Byrd  
Mississippi State University  
Miss State, MS

**\*SPEAKER**

**1:00 Complementary Applications of Analytic Techniques in Field Research.** J.T. Buol\*<sup>1</sup>, A. Brown<sup>2</sup>, D.B. Reynolds<sup>1</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Mississippi State Chemical Laboratory, Mississippi State, MS (184)

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**TUESDAY AFTERNOON FEBRUARY 5**

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**Physiological and Biological Aspects of Weed Control**

LOCATION: Meeting Room 14,15  
TIME: 1:15 PM - 2:00 PM  
CHAIR/  
MODERATOR: Clyde Smith  
UPI  
Marianna, FL  
CO-CHAIR: John Byrd  
Mississippi State University  
Miss State, MS

**\*SPEAKER**

**1:15 Dicamba Accumulation in Soybean Following Low-Dose Exposure in Reproductive Development.** M.M. Zaccaro\*, J.K. Norsworthy, C.B. Brabham; University of Arkansas, Fayetteville, AR (185)

- 1:30 EPA's Registration Review Process & Its Potential Impact on Herbicide Use.** C. Moore\*; Syngenta Crop Protection, LLC, Greensboro, NC (186)
- 1:45 Spatial-Temporal Analysis of the Benzobicyclon Rice Tolerance Gene .** C. Brabham\*<sup>1</sup>, J.K. Norsworthy<sup>1</sup>, V.K. Varanasi<sup>1</sup>, C. Sandoski<sup>2</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>Gowan USA, Collierville, TN (187)

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***TUESDAY AFTERNOON FEBRUARY 5***

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**Weed / Vegetation Management in Forestry**

LOCATION: Meeting Room 14,15  
 TIME: 2:00 PM - 3:00 PM  
 CHAIR/ Clyde Smith  
 MODERATOR: UPI  
 Marianna, FL  
 CO-CHAIR: John Byrd  
 Mississippi State University  
 Miss State, MS

**\*SPEAKER**

- 2:00 Early Response to Pine Control Treatments in Forestry Site Preparation Applications.** A.B. Self\*<sup>1</sup>, A.W. Ezell<sup>2</sup>; <sup>1</sup>Mississippi State University, Grenada, MS, <sup>2</sup>Mississippi State University, Miss State, MS (188)
- 2:15 Control of Natural Pines with a Mix of Imazapyr, Glyphosate, and Saflufenacil.** A.W. Ezell\*<sup>1</sup>, A.B. Self<sup>2</sup>; <sup>1</sup>Mississippi State University, Miss State, MS, <sup>2</sup>Mississippi State University, Grenada, MS (189)
- 2:30 Two-Year Loblolly Pine Growth Following Herbaceous Weed Control with Mixtures Containing Indaziflam.** A.W. Ezell\*<sup>1</sup>, A.B. Self<sup>2</sup>, J. Belcher<sup>3</sup>; <sup>1</sup>Mississippi State University, Miss State, MS, <sup>2</sup>Mississippi State University, Grenada, MS, <sup>3</sup>Bayer CropScience, Auburn, AL (190)
- 2:45 Break**



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**TUESDAY AFTERNOON FEBRUARY 5**

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**Soil and Environmental Aspects of Weed Science**

LOCATION: Meeting Room 14,15  
TIME: 3:00 PM - 4:15 PM  
CHAIR/  
MODERATOR: Clyde Smith  
UPI  
Marianna, FL  
CO-CHAIR: Jason Belcher  
Bayer Crop Protection  
Auburn, AL

**\*SPEAKER**

- 3:00 Response of Cotton to Low Rates of Clarity, Engenia, and Enlist Duo at different Growth Stages.** R.R. Hale\*<sup>1</sup>, T. Bararpour<sup>2</sup>, J.W. Seale<sup>2</sup>; <sup>1</sup>Delta Research and Extension Center, Stoneville, MS, <sup>2</sup>Mississippi State University, Stoneville, MS (191)
- 3:15 Assessing Dicamba Drift: Large Scale Field Studies.** G. Kruger\*<sup>1</sup>, G. Sousa Alves<sup>1</sup>, D.B. Reynolds<sup>2</sup>, J.K. Norsworthy<sup>3</sup>, B.G. Young<sup>4</sup>, C. Sprague<sup>5</sup>, R. Werle<sup>6</sup>, C. Sias<sup>7</sup>, P.H. Sikkema<sup>8</sup>; <sup>1</sup>University of Nebraska-Lincoln, North Platte, NE, <sup>2</sup>Mississippi State University, Mississippi State, MS, <sup>3</sup>University of Arkansas, Fayetteville, AR, <sup>4</sup>Purdue University, West Lafayette, IN, <sup>5</sup>Michigan State University, East Lansing, MI, <sup>6</sup>University of Wisconsin, Madison, WI, <sup>7</sup>Texas A&M University, College Station, TX, <sup>8</sup>University of Guelph, Ridgetown, ON (192)
- 3:30 An Attempt at Partitioning Dicamba Particles and Vapors.** G. Kruger\*<sup>1</sup>, G. Sousa Alves<sup>1</sup>, D.B. Reynolds<sup>2</sup>, D. Dodds<sup>2</sup>, A. Brown<sup>3</sup>, A. Meredith<sup>3</sup>, L.X. Franca<sup>2</sup>, B.K. Fritz<sup>4</sup>, C. Hoffmann<sup>5</sup>, J.A. Golus<sup>1</sup>, K. Schroeder<sup>1</sup>; <sup>1</sup>University of Nebraska-Lincoln, North Platte, NE, <sup>2</sup>Mississippi State University, Mississippi State, MS, <sup>3</sup>Mississippi State Chemical Laboratory, Mississippi State, MS, <sup>4</sup>USDA:ARS Areawide Pest Management Research Unit, College Station, TX, <sup>5</sup>Prology Consulting, Bryan, TX (193)
- 3:45 Discussion**

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**TUESDAY AFTERNOON FEBRUARY 5**

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**Quiz Bowl**

LOCATION: Ballroom A, B  
TIME: 5:00 PM - 6:00 PM  
CHAIR/ Tom Mueller  
MODERATOR: University of Tennessee  
Knoxville, TN

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**WEDNESDAY MORNING FEBRUARY 6**

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**SWSS Christian Fellowship Breakfast**

LOCATION: Meeting Room 18  
TIME: 6:30 AM - 7:45 AM  
CHAIR/ Tom Mueller  
MODERATOR: University of Tennessee  
Knoxville, TN

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**WEDNESDAY MORNING FEBRUARY 6**

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**Weed Management in Agronomic Crops**

LOCATION: Meeting Room 16, 17  
TIME: 8:15 AM - 4:00 PM  
CHAIR/ Vijay Singh  
MODERATOR: Texas A&M University  
College Station, TX  
CO-CHAIR: Sandeep Rana  
Bayer CropScience (Monsanto  
Legacy)  
Galena, MD

**\*SPEAKER**

**8:15 Predicting the Relative Long-Term Effectiveness  
of Herbicide Programs on *Amaranthus* Using  
Syngenta's Resistance Fighter Model. E.T.**

Parker\*<sup>1</sup>, R. Wuerffel<sup>2</sup>, E. Palmer<sup>3</sup>, D.L. Bowers<sup>4</sup>, C.L. Dunne<sup>5</sup>, D. Kaundun<sup>6</sup>, C. Liu<sup>6</sup>; <sup>1</sup>Syngenta, Vero Beach, FL, <sup>2</sup>Syngenta, Sebastian, FL, <sup>3</sup>Syngenta Crop Protection, Greensboro, NC, <sup>4</sup>Syngenta, Greensboro, NC, <sup>5</sup>Syngenta Crop Protection, Vero Beach, FL, <sup>6</sup>Syngenta, Bracknell, England (194)

- 8:30 Use of Unmanned Aerial Systems for Weed Detection and Management.** V. Singh\*<sup>1</sup>, D. Martin<sup>2</sup>, B. Sapkota<sup>1</sup>, M. Latheef<sup>2</sup>, M. Bishop<sup>1</sup>, M. Bagavathiannan<sup>1</sup>; <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>USDA, College Station, TX (195)
- 8:45 State of Resistance for Palmer Amaranth Populations from the North Carolina Coastal Plain.** D.J. Mahoney\*<sup>1</sup>, D. Jordan<sup>2</sup>, A.T. Hare<sup>2</sup>, N.R. Burgos<sup>3</sup>, M. Vann<sup>2</sup>; <sup>1</sup>North Carolina State Univ., Raleigh, NC, <sup>2</sup>North Carolina State University, Raleigh, NC, <sup>3</sup>University of Arkansas, Fayetteville, AR (196)
- 9:00 Engenia Herbicide Research Update.** C. ASMUS\*<sup>1</sup>, S.K. Bangarwa<sup>2</sup>; <sup>1</sup>BASF CORPORATION, Raleigh, NC, <sup>2</sup>BASF Corporation, Durham, NC (197)
- 9:15 Pyraclonil Efficacy in California Water Seeded Rice.** K.E. Driver\*<sup>1</sup>, A. Godar<sup>2</sup>, k. al-khatib<sup>2</sup>, J. Gutierrez<sup>3</sup>; <sup>1</sup>UC Davis, Davis, CA, <sup>2</sup>UC Davis, davis, CA, <sup>3</sup>Nichino USA, Fresno, CA (198)
- 9:30 Post-Direct Options in Enlist Cotton.** R.C. Doherty\*<sup>1</sup>, T. Barber<sup>2</sup>, Z.T. Hill<sup>3</sup>, A. Ross<sup>2</sup>; <sup>1</sup>University of Arkansas, Division of Agriculture, Cooperative Extension, Monticello, AR, <sup>2</sup>University of Arkansas, Lonoke, AR, <sup>3</sup>University of Arkansas Cooperative Extension Service, Monticello, AR (199)
- 9:45 Break**
- 10:00 Susceptibility of Arkansas Palmer Amaranth Accessions to Common Sites of Action.** C. Brabham\*, J.K. Norsworthy, V.K. Varanasi; University of Arkansas, Fayetteville, AR (200)
- 10:15 Evaluation of Engenia Herbicide Rope-wick Applications for Control of Palmer amaranth in Dicamba Tolerant Soybean.** G. Stapleton\*<sup>1</sup>, C. ASMUS<sup>2</sup>, D.E. Westberg<sup>3</sup>; <sup>1</sup>BASF Corporation, Halls, TN, <sup>2</sup>BASF CORPORATION, Raleigh, NC, <sup>3</sup>BASF Corporation, Cary, NC (201)

- 10:30 Off-Target Movement of Auxin Herbicides in Arkansas: What have We Learned?** J.K. Norsworthy\*<sup>1</sup>, T. Barber<sup>2</sup>, R.C. Scott<sup>3</sup>, C. Willett<sup>1</sup>, J. Ross<sup>2</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Lonoke, AR, <sup>3</sup>Univ of Arkansas Coop Extn, Lonoke, AR (202)
- 10:45 Tavium™ Plus VaporGrip® Technology – A Tool for Weed Management in Conventional and No-Till Dicamba Tolerant Soybeans and Cotton.** P.M. Eure\*<sup>1</sup>, J. Holloway<sup>2</sup>, D. Porter<sup>3</sup>, T. Beckett<sup>3</sup>; <sup>1</sup>Syngenta Crop Protection, Richmond, TX, <sup>2</sup>Syngenta Crop Protection, Jackson, TN, <sup>3</sup>Syngenta Crop Protection, Greensboro, NC (203)
- 11:00 Effect of POST-applied PPO- and ALS-inhibiting Herbicides on Soybean Yield and Canopy Formation.** O.W. France\*, J.K. Norsworthy, M.C. Castner, G.L. Priess; University of Arkansas, Fayetteville, AR (204)
- 11:15 Peanut Injury Evaluation of PPO Inhibitor Herbicides as Affected by Application Timings and Surfactants.** K.J. Price\*, S. Li; Auburn University, Auburn, AL (205)
- 11:30 Cotton Tolerance to Halauxifen-methyl and Florasulam Applied Preplant Burndown.** C.W. Cahoon\*<sup>1</sup>, M.C. Askew<sup>2</sup>, M.L. Flessner<sup>3</sup>, A. York<sup>4</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>Virginia Tech, Eure, NC, <sup>3</sup>Virginia Tech PPWS Dept., Blacksburg, VA, <sup>4</sup>North Carolina State University, Cary, NC (206)
- 11:45 Evaluation of Soybean Tolerance to Off-Target Loyant™ (florpyrauxifen-benzyl) Deposition.** D.C. Walker\*<sup>1</sup>, E. Webster<sup>2</sup>, B. McKnight<sup>1</sup>, S. Rustom<sup>1</sup>, M.J. Osterholt<sup>2</sup>, C. Webster<sup>3</sup>; <sup>1</sup>LSU AgCenter, Baton Rouge, LA, <sup>2</sup>Louisiana State University, Baton Rouge, LA, <sup>3</sup>LSU, Baton Rouge, LA (207)
- 12:00 Lunch**
- 1:00 A Comparison of Multiple Pre and Post-emergent Herbicide Programs in Peanut (*Arachis hypogaea* L.).** K.L. Broster\*<sup>1</sup>, T.A. Baughman<sup>2</sup>, B. Zurweller<sup>3</sup>, J. Ferguson<sup>3</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>OSU- Institute for Agricultural BioScience, Ardmore, OK, <sup>3</sup>Mississippi State University, Mississippi State, MS (208)

- 1:15 Mechanical Options to Improve In-row Weed Control in Organic Peanut Production.** W.C. Johnson III\*; USDA-ARS, Tifton, GA (209)
- 1:30 Managing PPO-resistant *Amaranthus* sp. in Roundup Ready 2 Xtend Soybeans.** G.B. Montgomery\*<sup>1</sup>, N. Rana<sup>2</sup>, L.M. Etheredge<sup>3</sup>; <sup>1</sup>Bayer CropScience, Rives, TN, <sup>2</sup>Bayer CropScience, St. Louis, MO, <sup>3</sup>Monsanto Company, Llano, TX (210)
- 1:45 The FullPage Rice Cropping Solution and Preface and Postscript Herbicides- a new IMI-tolerant rice weed control system.** A. Kendig\*<sup>1</sup>, D. Feist<sup>2</sup>, B. Ottis<sup>3</sup>; <sup>1</sup>ADAMA, Chesterfield, MO, <sup>2</sup>ADAMA, Ft. Collins, CO, <sup>3</sup>RiceTec, Alvin, TX (211)
- 2:00 Weed Management Programs in Mississippi Corn.** T. Bararpour\*<sup>1</sup>, R.R. Hale<sup>2</sup>, J.A. Bond<sup>2</sup>, J.W. Seale<sup>1</sup>, B.R. Golden<sup>2</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Delta Research and Extension Center, Stoneville, MS (212)
- 2:15 Efficacy of Quizalofop Mixtures with Auxinic Herbicides.** T.L. Sanders\*<sup>1</sup>, H. Edwards<sup>2</sup>, B. Lawrence<sup>2</sup>, J.D. Peeples Jr.<sup>3</sup>, N.G. Corban<sup>2</sup>, B.R. Golden<sup>4</sup>, J.A. Bond<sup>4</sup>; <sup>1</sup>Mississippi State University: Delta Research & Extension Center, Stoneville, MS, <sup>2</sup>Mississippi State University, Stoneville, MS, <sup>3</sup>Delta Research and Extension Center, Stoneville, MS, <sup>4</sup>Delta Research and Extension Center, Stoneville, MS (213)
- 2:30 Rice Response to Common Preplant Herbicides.** B. Lawrence\*<sup>1</sup>, J.A. Bond<sup>2</sup>, H. Edwards<sup>1</sup>, B.R. Golden<sup>2</sup>, T.L. Sanders<sup>3</sup>, N.G. Corban<sup>1</sup>, J.D. Peeples Jr.<sup>4</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Delta Research and Extension Center, Stoneville, MS, <sup>3</sup>Mississippi State University: Delta Research & Extension Center, Stoneville, MS, <sup>4</sup>Delta Research and Extension Center, Stoneville, MS (214)
- 2:45 Break**
- 3:00 Gramoxone Magnum: A New Option for Burndown and Residual Weed Control.** B. Lindenmayer\*<sup>1</sup>, R. Lins<sup>2</sup>, A. Moses<sup>3</sup>, M. Saini<sup>4</sup>, D.L. Bowers<sup>5</sup>; <sup>1</sup>Syngenta Crop Protection, Perkins, OK, <sup>2</sup>Syngenta, Byron, MN, <sup>3</sup>Syngenta, Gilbert, IA, <sup>4</sup>Syngenta Crop Protection, Greensboro, NC, <sup>5</sup>Syngenta, Greensboro, NC (215)

- 3:15 Permeate: A New NPE-Free Nonionic Surfactant.** J.A. Gillilan<sup>1</sup>, R.J. Edwards\*<sup>2</sup>, T.A. Hayden<sup>3</sup>, L.C. Magidow<sup>4</sup>, A.D. Makepeace<sup>4</sup>, J.V. Gednalske<sup>4</sup>; <sup>1</sup>Winfield United, Springfield, TN, <sup>2</sup>WinField Solutions, River Falls, WI, <sup>3</sup>Winfield United, Owensboro, KY, <sup>4</sup>Winfield United, River Falls, WI (216)
- 3:30 Nozzle Type and Time of Application Effects on Weed Control in Mississippi Cotton.** J. Ferguson\*<sup>1</sup>, P.H. Urach Ferreira<sup>1</sup>, M.T. Wesley Jr.<sup>2</sup>, L.H. Merritt<sup>1</sup>, Z.R. Treadway<sup>1</sup>, K.L. Broster<sup>3</sup>, N. Fleitz<sup>4</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Mississippi State University, Mississippi State, MS, <sup>3</sup>Mississippi State University, Starkville, MS, <sup>4</sup>Pentair-Hypro, New Brighton, MN (217)
- 3:45 Evaluation of Benzobicyclon-Containing Programs for Weedy Rice Control in Provisia Rice.** J.A. Patterson\*, J.K. Norsworthy, Z.D. Lancaster, J.T. Richburg, M.C. Castner; University of Arkansas, Fayetteville, AR (218)
- 4:00 Discussion**

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**WEDNESDAY MORNING FEBRUARY 6**

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**New Technologies**

LOCATION: Meeting Room 19, 20  
 TIME: 8:15 AM - 9:45 AM  
 CHAIR/ Ryan Edwards  
 MODERATOR: WinField United  
 River Falls, WI

**\*SPEAKER**

- 8:15 Taking Effective Scientific Photographs and Analyzing Digital Images and Videos in Weed Science Research.** S. Askew\*; Virginia Tech, Blacksburg, VA (219)
- 8:30 Image-Based Detection of Plasticulture Row-Middle Vegetation using a Convolutional Neural Network.** S.M. Sharpe\*<sup>1</sup>, A.W. Schumann<sup>2</sup>, J.J. Yu<sup>3</sup>, N. Boyd<sup>1</sup>; <sup>1</sup>University of Florida, Wimauma, FL, <sup>2</sup>University of Florida, Lake Alfred, FL, <sup>3</sup>University of Florida, Riverview, FL (220)

- 8:45**     **What's New from Syngenta: New product introductions and current product updates.** D. Black\*; Syngenta Crop Protection, Searcy, AR (221)
- 9:00**     **Introducing ProVista St. Augustine grass, the Next Generation of Sustainable Lawn Grasses.** S. Kelly\*<sup>1</sup>, C.A. Yurisc<sup>1</sup>, L. Freshour<sup>2</sup>, M. Koch<sup>2</sup>, C. Baldwin<sup>2</sup>, R.D. Baker<sup>2</sup>; <sup>1</sup>The Scotts Company, Apopka, FL, <sup>2</sup>The Scotts Company, Marysville, OH (222)
- 9:15**     **Palmer amaranth (*Amaranthus palmeri*) Control Using Various Droplet Sizes of Acifluorfen and Lactofen.** L.X. Franca\*<sup>1</sup>, D. Dodds<sup>1</sup>, C. Samples<sup>1</sup>, G. Kruger<sup>2</sup>, T.R. Butts<sup>2</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>University of Nebraska-Lincoln, North Platte, NE (223)
- 9:30**     **Discussion**

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**WEDNESDAY MORNING    FEBRUARY 6**

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**Weed Management in Horticultural Crops**

LOCATION:            Meeting Room 19, 20  
 TIME:                10:00 AM - 11:45 AM  
 CHAIR/  
 MODERATOR:      Nicholas Basinger  
                           The University of Georgia  
                           Athens, GA

**\*SPEAKER**

- 10:00**     **Interspecific and intraspecific interference of Palmer amaranth (*Amaranthus palmeri*) and large crabgrass (*Digitaria sanguinalis*) in sweetpotato.** N.T. Basinger\*<sup>1</sup>, K.M. Jennings<sup>2</sup>, D. Monks<sup>2</sup>, D. Jordan<sup>2</sup>, W. Everman<sup>2</sup>, E.L. Hestir<sup>3</sup>, M.D. Waldschmidt<sup>2</sup>, S.C. Smith<sup>2</sup>, C. Brownie<sup>2</sup>; <sup>1</sup>The University of Georgia, Athens, GA, <sup>2</sup>North Carolina State University, Raleigh, NC, <sup>3</sup>University of California, Merced, Merced, CA (224)
- 10:15**     **Cucurbit Response to Residual Glyphosate Activity from a Preplant Application.** K.J. Goodman\*<sup>1</sup>, T.M. Randell<sup>1</sup>, L.C. Hand<sup>1</sup>, J.C. Vance<sup>1</sup>, A.S. Culpepper<sup>2</sup>; <sup>1</sup>University of Georgia, Tifton, GA, <sup>2</sup>University of Georgia, Tifton, GA (225)

- 10:30 Evaluating Pumpkin Tolerance to Acetochlor.** J.H. Ferebee\*<sup>1</sup>, C.W. Cahoon<sup>1</sup>, T. Besancon<sup>2</sup>, H.B. Blake<sup>1</sup>, T.H. Hines<sup>1</sup>; <sup>1</sup>Virginia Tech, Painter, VA, <sup>2</sup>Rutgers University, Chatsworth, NJ (226)
- 10:45 Evaluation of Chelated Fe and Plant Hormones as Herbicide Safeners in Sweetpotato.** M.A. Cutulle\*<sup>1</sup>, H.T. Campbell<sup>1</sup>, P.A. Wadl<sup>2</sup>, D. Jeffris<sup>1</sup>; <sup>1</sup>Clemson University, Charleston, SC, <sup>2</sup>USDA-ARS, Charleston, SC (227)
- 11:00 Effects of Low-Dose Applications of 2,4-D and Dicamba on Cucumber and Cantaloupe.** L.C. Hand\*<sup>1</sup>, A.S. Culpepper<sup>2</sup>, T. Gray<sup>3</sup>, J. Shugart<sup>3</sup>; <sup>1</sup>University of Georgia, Tifton, GA, <sup>2</sup>University of Georgia, Tifton, GA, <sup>3</sup>Georgia Department of Agriculture, Atlanta, GA (228)
- 11:15 Crop tolerance and weed control of clomazone + ethalfluralin posttransplant in cucurbit crops.** P.J. Dittmar\*<sup>1</sup>, A.S. Culpepper<sup>2</sup>, R.B. Batts<sup>3</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>University of Georgia, Tifton, GA, <sup>3</sup>NCSU IR-4 Field Research Center, Raleigh, NC (229)
- 11:30 Pumpkin Variety Tolerance to Fomesafen.** N.R. Burgos\*<sup>1</sup>, M. Machado Noguera<sup>1</sup>, L. Benedetti<sup>1</sup>, P.C. Lima<sup>1</sup>, F.C. Caratti<sup>2</sup>, S. Eaton<sup>3</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Fayetteville, AR, <sup>3</sup>University of Arkansas, Fayetteville, Fayetteville, AR (230)
- 11:45 Hydrogels as herbicide carriers in vegetable plasticulture.** R. Kanissery\*<sup>1</sup>, C. McAvoy<sup>2</sup>; <sup>1</sup>University of Florida - IFAS, Immokalee, FL, <sup>2</sup>University of Florida - SWFREC, Immokalee, FL (231)
- 12:00 Discussion**



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**WEDNESDAY MORNING FEBRUARY 6**

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**Weed Management in Turf**

LOCATION: Meeting Room 14,15  
TIME: 8:00 AM - 11:00 AM  
CHAIR/ Shawn Askew  
MODERATOR: Virginia Tech  
Blacksburg, VA

**\*SPEAKER**

- 8:00 Enhancing the efficacy of preemergence herbicides for annual bluegrass control using degree-day models.** P. McCullough\*; University of Georgia, Griffin, GA (232)
- 8:15 Zoysiagrass and broadleaf weed response to herbicides applied during spring green up.** J.M. Craft\*, S. Askew; Virginia Tech, Blacksburg, VA (233)
- 8:30 Potential Turfgrass Herbicide Safeners.** S.A. Ledford\*, B. McCarty, B. Kerr; Clemson University, Clemson, SC (234)
- 8:45 Post Emergence Control of Southern Watergrass and Torpedograss - final updates.** P.J. Brown\*, B. McCarty, B. Cross, B. Kerr, N. Gambrell; Clemson University, Clemson, SC (235)
- 9:00 Evaluation of newly established buffalograss for tolerance to glyphosate.** M.B. Bertucci\*, D. Karcher, D. OBrien, M. Richardson; University of Arkansas, Fayetteville, AR (236)
- 9:15 Postemergence Crabgrass (*Digitaria* spp.) Control in Bermudagrass with Pinoxaden.** D.R. Taylor\*<sup>1</sup>, J.T. Brosnan<sup>2</sup>, G. Breeden<sup>3</sup>, G.M. Henry<sup>4</sup>; <sup>1</sup>University of Tennessee Knoxville, Knoxville, TN, <sup>2</sup>Univ. of Tennessee, Knoxville, TN, <sup>3</sup>University of Tennessee, Knoxville, TN, <sup>4</sup>University of Georgia, Athens, GA (237)
- 9:30 Soil Moisture and Application Placement Affect Herbicide Efficacy for Postemergence Goosegrass (*Eleusine indica*) Control.** J. Vargas\*<sup>1</sup>, J.T. Brosnan<sup>2</sup>, G. Breeden<sup>3</sup>, M.T. Elmore<sup>4</sup>, D.P.

Tuck<sup>4</sup>; <sup>1</sup>U of TN 252 Ellington Bldg, Knoxville, TN, <sup>2</sup>Univ. of Tennessee, Knoxville, TN, <sup>3</sup>University of Tennessee, Knoxville, TN, <sup>4</sup>Rutgers University, New Brunswick, NJ (238)

**9:45 Break**

**10:00 Post-emergent Control Options for Poa Annu. B.**  
McCarty<sup>1</sup>, J.R. Weaver\*<sup>2</sup>, N. Gambrell<sup>1</sup>, C. Patrick<sup>1</sup>; <sup>1</sup>Clemson University, Clemson, SC, <sup>2</sup>Clemson University, Pendleton, SC (239)

**10:15 Evaluation of Piper and Clethodim for Annual Bluegrass Control in Dormant Bermudagrass . P.**  
McCullough\*; University of Georgia, Griffin, GA (240)

**10:30 New Products for Thin Paspalum Control. J.**  
Brewer\*<sup>1</sup>, S. Rana<sup>2</sup>, S. Askew<sup>1</sup>; <sup>1</sup>Virginia Tech, Blacksburg, VA, <sup>2</sup>Virginia Polytechnic Institute and State University, Blacksburg, VT (241)

**10:45 Discussion**

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***WEDNESDAY AFTERNOON FEBRUARY 6***

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**Graduate Student Luncheon**

LOCATION: Meeting Room 18  
TIME: 12:00 PM - 2:00 PM

**SWSS Women Networking Event**

LOCATION: Meeting Room 18  
TIME: 4:00 PM - 5:00 PM

**SWSS Mixer**

LOCATION: Pre-Function Aea  
TIME: 5:00 PM - 6:00 PM

**Awards Banquet**

LOCATION: Ballroom A, B  
TIME: 6:00 PM - 8:00 PM



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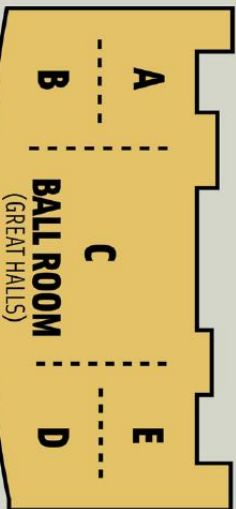
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## **NOTES:**

## **NOTES:**

NATIVE AMERICAN ROOM

14 : 15



BALL ROOM  
(GREAT HALLS)



16 : 17 : 18 : 19 : 20

21

SKYWALK TO HOTEL

## **SWSS Sustaining Members – 2018-19**

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**ADAMA**

**Agricenter International**

**AMVAC Chemical Corp.**

**BASF Corporation**

**BASF Seed and Traits**

**Bayer CropScience**

**Bellspray, Inc.**

**Corteva Agriscience**

**Diligence Technologies**

**DuPont Crop Protection**

**Farm Press Publications**

**FMC**

**Greenleaf Technologies**

**Gylling Data Management, Inc.**

**Helena Agri-Enterprises, LLC.**

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

**Monsanto Company**

**Nichino America**

**Syngenta Crop Protection**

**TeeJet Technologies - Spraying Systems Co.**

**The Scotts Company**

**United Phosphorus, Inc.**

**Valent USA Corp**

**Winfield United**

### Personal Time Schedule

Time	Monday	Tuesday	Wednesday
8:00			
8:15			
8:30			
8:45			
9:00			
9:15			
9:30			
9:45		Break	Break
10:00			
10:15			
10:30			
10:45			
11:00			
11:15			
11:30			
11:45			
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12:15			
12:30			
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1:30			
1:45			
2:00			
2:15			
2:30			
2:45	Break	Break	Break
3:00			
3:15			
3:30			
3:45			
4:00			
4:15			
4:30			
4:45			
5:00	<b>SWSS Business Meeting</b>	<b>SWSS Quiz Bowl</b>	<b>SWSS Mixer</b>
5:15			
5:30			

<b>5:45</b>			
<b>6:00</b>			<b>SWSS Awards Banquet</b>
<b>7:00</b>			
<b>7:15</b>			
<b>7:30</b>			