Program
70th
Annual Meeting

Southern
Weed Science
Society

Theme:

*Opportunities, Challenges, and Communicating Solutions*

January 23 – 26, 2017
Hyatt Regency- The Wynfrey Hotel
Birmingham, AL

PLEASE BRING THIS PROGRAM TO THE MEETING
PLEASE SUBMIT ABSTRACTS TO WEBSITE PRIOR TO MEETING
PLEASE SUBMIT POWERPOINT FILES TO WEBSITE
Local Arrangements Committee

<table>
<thead>
<tr>
<th>Name</th>
<th>Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joyce Tredaway</td>
<td>Chair</td>
</tr>
<tr>
<td>Phil Banks</td>
<td>Registration</td>
</tr>
<tr>
<td>Andrew Price</td>
<td>Audio Visual</td>
</tr>
<tr>
<td>Wykle Green</td>
<td>Equipment Storage &amp; Security</td>
</tr>
<tr>
<td>Scott McElroy</td>
<td>Graduate Students &amp; Room Reservations</td>
</tr>
<tr>
<td>Steve Li</td>
<td>Information Booth &amp; Message Coordinator</td>
</tr>
<tr>
<td>Joyce Tredaway</td>
<td>Meal Functions</td>
</tr>
<tr>
<td>Jacob Williams</td>
<td>Room Setup</td>
</tr>
<tr>
<td>William Greer</td>
<td>Signs and Exhibits</td>
</tr>
<tr>
<td>Tom Barber</td>
<td>Poster Setup</td>
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</tbody>
</table>

Special Events

**SWSS General Session**
*Wynfrey Ballroom AB*
Monday, January 23, 2017
1:00 p.m. – 3:00 pm

**Graduate Student Quiz Bowl**
*Wynfrey Ballroom C*
Tuesday, January 24, 2017
5:00 p.m. – 6:00 p.m.

**SWSS Dessert Social sponsored by BASF**
*Wynfrey Ballroom DE*
Tuesday, January 24, 2017
6:00 p.m. – 9:00 p.m.

**SWSS Awards Banquet**
*Wynfrey Ballroom CDE*
Wednesday, January 25, 2017
6:00 p.m. – 8:00 p.m.

Future Meetings

Hyatt Regency
Atlanta, GA
January 22 – 24, 2018

Renaissance Oklahoma City Convention Center Hotel
Oklahoma City, OK
February 3 – 7, 2019
Southern Weed Science Society Officers

**PRESIDENT**
Peter Dotray
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carroll.johnson@ars.usda.gov

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Drake Copeland
North Carolina State University
(731) 514-3857
jdcopel2@ncsu.edu

SOUTHERN WEED SCIENCE SOCIETY

Committees and Chairpersons

<table>
<thead>
<tr>
<th>Committee</th>
<th>Chairperson</th>
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<tbody>
<tr>
<td>Awards</td>
<td>Brad Minton</td>
</tr>
<tr>
<td>Constitution &amp; Operating Procedures</td>
<td>Carroll Johnson</td>
</tr>
<tr>
<td>Endowment Foundation</td>
<td>James Holloway</td>
</tr>
<tr>
<td>Finance</td>
<td>Bob Scott</td>
</tr>
<tr>
<td>Graduate Student Organization</td>
<td>Drake Copeland</td>
</tr>
<tr>
<td>Historical</td>
<td>John Byrd</td>
</tr>
<tr>
<td>Legislative and Regulatory</td>
<td>Bob Nichols</td>
</tr>
<tr>
<td>Local Arrangements</td>
<td>Joyce Tredaway</td>
</tr>
<tr>
<td>Long Range Planning</td>
<td>Scott Senseman</td>
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<tr>
<td>Newsletter</td>
<td>Bob Scott</td>
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<td>Nominating</td>
<td>Brad Minton</td>
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<tr>
<td>2017 Program</td>
<td>Gary Schwarzkloz</td>
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<tr>
<td>2018 Program</td>
<td>Bob Scott</td>
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<tr>
<td>Resolutions and Necrology</td>
<td>David Black</td>
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<tr>
<td>Sales Coordination</td>
<td>Phil Banks</td>
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<tr>
<td>Site Selection</td>
<td>John Byrd</td>
</tr>
<tr>
<td>Student Program</td>
<td>Hunter Perry</td>
</tr>
<tr>
<td>Sustaining Membership</td>
<td>John Richburg</td>
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<tr>
<td>Southern Weed Contest</td>
<td>Wes Everman</td>
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<tr>
<td>Weed Resistance and Technology Stewardship</td>
<td>Eric Prostko</td>
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Program Section Chairs

<table>
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<tr>
<th>Section</th>
<th>Chairperson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agronomic Crops</td>
<td>Matt Inman</td>
</tr>
<tr>
<td>Educational Aspects</td>
<td>Nilda Burgos</td>
</tr>
<tr>
<td>Graduate Student Contest</td>
<td>Hunter Perry</td>
</tr>
<tr>
<td>Horticultural Crops</td>
<td>Peter Dittmar</td>
</tr>
<tr>
<td>Physiological / Biological Aspects</td>
<td>Paul Tseng</td>
</tr>
<tr>
<td>Posters</td>
<td>Tom Barber</td>
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<tr>
<td>Soil &amp; Environmental Aspects</td>
<td>Tom Mueller</td>
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<tr>
<td>Symposium</td>
<td>Ty Witten</td>
</tr>
<tr>
<td>Turf</td>
<td>Jay McCurdy</td>
</tr>
<tr>
<td>Weed Biology and Ecology</td>
<td>Angela Post</td>
</tr>
<tr>
<td>Weed Management in Pastures, Rangeland, Utilities, and Forestry</td>
<td>Stephen Enloe</td>
</tr>
</tbody>
</table>
Registration

MONDAY, January 23, 2017
8:00 a.m. – 5:00 p.m.
Prefunction area

TUESDAY, January 24, 2017
8:00 a.m. – 5:00 p.m.
Prefunction area

WEDNESDAY, January 25, 2017
8:00 a.m. – 3:00 p.m.
Prefunction area

Displays and Posters

Set-up time for displays and the Poster Session is 8:00 a.m. to
The poster area will be open from 1:30 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, January 25.

Authors in the Student Contest will be present to discuss
their posters from 7:30 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 by 2:00 p.m. on
Wednesday, January 25.

Location of Events

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<tr>
<th>Event</th>
<th>Location</th>
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<tr>
<td>SWSS Executive Board Meetings</td>
<td>Essex</td>
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<tr>
<td>Local Arrangements</td>
<td>Berkshire</td>
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<tr>
<td>Graduate Contest Judge’s Breakfast</td>
<td>Windsor I</td>
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<tr>
<td>Graduate Contest Judge’s Work Room</td>
<td>Windsor II</td>
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<tr>
<td>SWSS Business Meeting</td>
<td>Wynfrey Ballroom C</td>
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<tr>
<td>General Session</td>
<td>Wynfrey Ballroom AB</td>
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<tr>
<td>SWSS Quiz Bowl</td>
<td>Wynfrey Ballroom C</td>
</tr>
<tr>
<td>BASF Social</td>
<td></td>
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<tr>
<td>SWSS Mixer</td>
<td>Prefunction Area</td>
</tr>
<tr>
<td>SWSS Awards Banquet</td>
<td>Wynfrey Ballroom CDE</td>
</tr>
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</table>
PROGRAM OVERVIEW
Schedule of Events and Meetings

Sunday, January 22, 2017

4:00 p.m. – 5:00 p.m. Local Arrangements
Berkshire

5:00 p.m. – 7:00 p.m. SWSS Executive Board Meeting
Essex

MONDAY, January 23, 2017

7:00 a.m. – 5:00 p.m. Local Arrangements
Berkshire

8:00 a.m. – Noon Presentation Loading Area
Prefunction area

8:00 a.m. – Noon Poster Setup
Riverchase Ballroom

8:00 a.m. – 9:00 a.m. Endowment Foundation Committee
Avon

8:00 a.m. – 9:00 a.m. Site Selection Committee
Devon

8:00 a.m. – 9:00 a.m. Research Committee
Essex

9:00 a.m. – 10:00 a.m. Herbicide Resistant Weeds
Committee
Avon

9:00 a.m. – 10:00 a.m. Finance Committee
Essex

10:00 a.m. – 11:00 a.m. Weed Contest Committee
Devon

10:00 a.m. – 11:00 a.m. Legislative & Regulatory Committee
Cornwall

10:00 a.m. – 11:00 a.m. 2018 Program Committee
Essex

11:00 a.m. – 12:00 a.m. SWSS Executive Board Meeting
Essex

1:00 p.m. – 3:00 p.m. Opening – General Session
Wynfrey Ballroom A & B

1:00 p.m. – 5:00 p.m. Presentation Loading Area
Prefunction area

5:00 p.m. – 6:00 p.m. SWSS Business Meeting
Wynfrey Ballroom C
**TUESDAY, January 24, 2017**

6:15 a.m. – 7:00 a.m.   Graduate Student Contest  
Judge’s Breakfast  
Wyndor I  

7:00 a.m. – 5:00 p.m.   Local Arrangements  
Berkshire  

8:00 p.m. – 5:00 p.m.   Graduate Student Contest Judges  
Work Room  
Wyndor II  

8:00 a.m. – Noon   Presentation Loading  
Prefunction area  

5:00 p.m. – 6:00 p.m.   Graduate Student Quiz Bowl  
Wynfrey Ballroom C  

6:00 p.m. – 9:00 p.m.   SWSS Dessert Social sponsored by BASF  
Wynfrey Ballroom DE  

**WEDNESDAY, January 25, 2017**

6:30 a.m. – 7:45 a.m.   SWSS Christian Fellowship  
Breakfast  
Wyndor II  

7:00 a.m. – 5:00 p.m.   Local Arrangements  
Berkshire  

Noon – 2:00 p.m.   Graduate Student Lunch / Symposium  
Wyndor I  

5:00 – 6:00 p.m.   SWSS Mixer (Cash Bar)  
Prefunction area  

6:00 p.m. – 8:00 p.m.   SWSS Awards Banquet  
Wynfrey Ballroom CDE  

**THURSDAY, January 26, 2017**

7:00 a.m. – 10:00 a.m.   SWSS Executive Board Breakfast  
& Board Meeting  
Essex  

8:00 a.m. – 9:00 AM   Local Arrangements Committee  
Berkshire
# TECHNICAL PROGRAM OVERVIEW

## January 23, Monday Afternoon

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 p.m. – 3:00 p.m.</td>
<td>General Session</td>
<td>Wynfrey Ballroom A &amp; B</td>
</tr>
<tr>
<td>1:30 p.m. – 5:30 p.m.</td>
<td>Poster - Available for Viewing</td>
<td>Riverchase Ballroom</td>
</tr>
<tr>
<td>3:15 p.m. – 5:00 p.m.</td>
<td>Soil &amp; Environmental Aspects</td>
<td>Wynfrey Ballroom D</td>
</tr>
<tr>
<td>3:15 p.m. – 5:00 p.m.</td>
<td>Horticultural Crops</td>
<td>Wynfrey Ballroom E</td>
</tr>
<tr>
<td>3:15 p.m. – 5:00 p.m.</td>
<td>Agronomic Crops</td>
<td>Wynfrey Ballroom AB</td>
</tr>
<tr>
<td>5:00 p.m. – 6:00 p.m.</td>
<td>SWSS Business Meeting</td>
<td>Wynfrey Ballroom C</td>
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## January 24, Tuesday Morning

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 a.m. – Noon</td>
<td>Posters Session</td>
<td>Riverchase Ballroom</td>
</tr>
<tr>
<td></td>
<td><em>Authors in the Student Contest Present</em> (7:30 a.m. – 8:00 a.m.)</td>
<td></td>
</tr>
<tr>
<td>7:30 a.m. – 12:15 p.m.</td>
<td>Student Paper Contest - Masters Section - Wynfrey Ballroom A</td>
<td></td>
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<tr>
<td>7:30 a.m. – 12:15 p.m.</td>
<td>Student Paper Contest - PhD Section - Wynfrey Ballroom B</td>
<td></td>
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</table>

All paper and poster judges please have completed score sheets to Hunter Perry by 5 pm on Tuesday.

## January 24, Tuesday Afternoon

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>1:30 p.m. – 5:30 p.m.</td>
<td>Posters – Available for Viewing</td>
<td>Riverchase Ballroom</td>
</tr>
<tr>
<td>1:00 p.m. – 5:00 p.m.</td>
<td>Turf</td>
<td>Wynfrey Ballroom DE</td>
</tr>
<tr>
<td>1:00 p.m. – 5:00 p.m.</td>
<td>Agronomic Crops - I</td>
<td>Wynfrey Ballroom A</td>
</tr>
<tr>
<td>1:00 p.m. – 5:00 p.m.</td>
<td>Agronomic Crops - II</td>
<td>Wynfrey Ballroom B</td>
</tr>
<tr>
<td>1:00 p.m. – 3:00 p.m.</td>
<td>Pastures, Forestry, &amp; Utilities</td>
<td>Wyndso I</td>
</tr>
<tr>
<td>1:00 p.m. – 3:00 p.m.</td>
<td>New Technologies in Weed Science</td>
<td>Yorkshire (Lobby Level)</td>
</tr>
<tr>
<td>5:00 p.m. – 6:00 p.m.</td>
<td>Student Quiz Bowl</td>
<td>Wynfrey Ballroom C</td>
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</table>
January 25, Wednesday Morning

7:30 a.m. – 2:00 p.m.  Posters - Available for Viewing
                      Riverchase Ballroom
                      Authors of all non-student posters
                      present (7:30 a.m. – 8:00 a.m.)
                      Posters removed by 2:00 p.m.

8:00 a.m. – 10:00 a.m. Symposium: - Launching New Technology Systems:
                        Roundup Ready® Xtend Crop System
                        Wynfrey Ballroom A & B

10:30 a.m. – Noon    Weed Biology & Ecology
                      Yorkshire (Lobby Level)

10:30 a.m. – Noon    Weed Management in Agronomic Crops
                      Wynfrey Ballroom DE

January 25, Wednesday Afternoon

Noon – 2:00 p.m.      Student Luncheon &
                      Symposium (registered
                      students/speakers only)
                      Wyndor I

1:30 p.m. – 5:00 p.m. Turf
                      Wynfrey Ballroom B

1:30 p.m. – 5:00 p.m. Physiological & Biological Aspects
                      Yorkshire (Lobby Level)

1:30 p.m. – 5:00 p.m. Agronomic Crops
                      Wynfrey Ballroom A

January 25, Wednesday Evening

5:00 p.m. – 6:00 p.m. SWSS MIXER
                      Prefunction area

6:00 p.m. – 8:00 p.m. SWSS AWARDS BANQUET
                      Wynfrey Ballroom CDE

January 26, Thursday Morning

7:00 a.m. – 10:00 a.m. SWSS Executive Board Breakfast
                        & Meeting
                        Essex

8:00 a.m. – 9:00 a.m. Local Arrangements
                      Berkshire
PROGRAM

Poster Section

Location: Riverchase Ballroom

Chair and Moderator: Tom Barber

*PRESENTER

1Dow AgroSciences, Indianapolis, IN, 2Kelly Services, Indianapolis, IN (1)

Evaluation of pethoxamid applied alone and as tank-mixtures in rice. J.A. Godwin Jr.*, J.K. Norsworthy, M.H. Moore, N.R. Steppig; University of Arkansas, Fayetteville, AR (2)

Influence of Heat Unit Accumulation in Cotton on Symptomology and Yield Loss due to Sub-Lethal Rates of 2,4-D. S.A. Byrd*, G.D. Collins, A.S. Culpepper, D.M. Dodds, K.L. Edmisten, D.L. Wright, G.D. Morgan, P.A. Baumann, P.A. Dotray, M.R. Manuchehri, A.S. Jones, T.L. Grey, T.M. Webster, J.W. Davis, W.R. Jared, P.M. Roberts, J.L. Snider, W.M. Porter; 1Texas A&M University AgriLife Extension, Lubbock, TX, 2North Carolina State University, Rocky Mount, NC, 3University of Georgia, Tifton, GA, 4Mississippi State University, Starkville, MS, 5North Carolina State University, Raleigh, NC, 6University of Florida, Quincy, FL, 7Texas A&M University AgriLife Extension, College Station, TX, 8Texas Tech University, Lubbock, TX, 9Oklahoma State University, Stillwater, OK, 10University of Missouri, Portageville, MO, 11USDA, Tifton, GA, 12University of Georgia, Griffin, GA (3)

Overcoming antagonism in tank mixtures of glufosinate + glyphosate and glufosinate + clethodim on grasses. C.J. Meyer*, J.K. Norsworthy, Z.D. Lancaster, M.L. Young; University of Arkansas, Fayetteville, AR (4)

Phenotyping Weedy Rice for the Discovery of Drought and Submergence Tolerance for the Improvement of Cultivated Rice. S.D. Stallworth*, T. Tseng, S. Shrestha; 1Mississippi State University, Mississippi State, MS, 2Mississippi State University, Starkville, MS (5)
Stakeholder perspectives on weed management issues in Texas rice. R. Liu*, V. Singh, X. Zhou, J. Samford, M.V. Bagavathiannan, 1Texas A&M University, College station, TX, 2Texas A&M University, college station, TX, 3Texas A&M AgriLife research, college station, TX, 4Texas A&M University, College Station, TX (6)

Evaluation of Fluridone in Cotton and Peanut. D.L. Teeter, T.A. Baughman, R.W. Peterson, C.D. Curtsinger, P.A. Dotray; 1Oklahoma State University, Ardmore, OK, 2Texas A&M AgriLife Research, Lubbock, TX (7)

Evaluation of Soybean Technologies in Oklahoma. C.D. Curtsinger, T.A. Baughman, R.W. Peterson, D.L. Teeter; Oklahoma State University, Ardmore, OK (8)

Evaluation of Sorghum Herbicide Programs. R.W. Peterson, T.A. Baughman, C.D. Curtsinger, D.L. Teeter, P.A. Dotray; 1Oklahoma State University, Ardmore, OK, 2Texas A&M AgriLife Research, Lubbock, TX (9)

Herbicide mixtures for late burndown application in soybean. T.L. Phillips, J.D. Peeples, H.M. Edwards, B.H. Lawrence, H.T. Hydrick, J.A. Bond; 1Mississippi State University, Stoneville, MS, 2Stoneville - Delta Research and Extension Center, Stoneville, MS (10)

Weed Control Programs with Engenia in Mississippi. M.T. Bararpour, J.A. Bond, D.M. Dodds, H.M. Edwards, B.H. Lawrence, A.R. Rhodes; 1University of Arkansas, Fayetteville, AR, 2Mississippi State University, Stoneville, MS, 3Mississippi State University, Starkville, MS, 4BASF, Madison, MS (11)

Influence of glufosinate rate and residual herbicides in a sequential postemergence program. P.A. Dotray, S. Taylor, R. Perkins; 1Texas Tech University, Lubbock, TX, 2Texas A&M AgriLife Research, Lubbock, TX, 3Bayer CropScience, Idalou, TX (12)

Potential Safening of Topramezone on Seashore Paspalum with Triclopyr. C.G. Goncalves, A.P. Boyd, A. Brown, J. Harris, J.S. McElroy, D. Martins; 1Auburn University, Auburn, AL, 2UNESP, Jaboticabal, Brazil (13)

Effect of Herbicides and Application Timing Upon Warm and Cool Season Native Grasses Sown on Southeastern USA Golf Courses. M.P. Richard, J. McCurdy, B.S. Baldwin; Mississippi State University, Starkville, MS (14)

Phenotypic and genotypic diversity of herbicide tolerant tomato. G. Sharma, Z. Yue, H. Yates, C. Barickman, R. Synder, T. Tseng; Mississippi State University, Starkville, MS (15)
Ascorbate Peroxidase 2 Expression in Rice, Weedy rice, and Echinochloa colona in response to drought. C. Oliveira¹, D. Benemann¹, N.R. Burgos², D. Agostinetto¹, ¹Universidade Federal de Pelotas, Pelotas, Brazil, ²University of Arkansas, Fayetteville, AR (16)

Roundup Ready 2 Xtend Soybean Systems. S.A. Nolte*; Monsanto, St. Louis, MO (17)

Herbicide Timing for Termination of Failed Corn Stand. H.M. Edwards*¹, B.H. Lawrence¹, J.D. Peeples¹, T.L. Phillips¹, J.A. Bond¹, B.R. Golden²; ¹Mississippi State University, Stoneville, MS, ²Mississippi State University, Stoneville, AR (18)


Influence of CO₂ Levels on Herbicide Selectivity in Rice. J.P. Refatti*¹, L.A. Avila¹, N.R. Burgos², E.R. Camargo¹, J.I. Oliveira¹; ¹UFPel, Pelotas, Brazil, ²University of Arkansas, Fayetteville, AR (20)

Comparison of one- and two-pass weed management programs in corn. D. Stephenson*¹, B.C. Woolam¹, T.B. Buck²; ¹LSU AgCenter, Alexandria, LA, ²LSU AgCenter, Baton Rouge, LA (21)

Common rice herbicide tank mixtures for flatsedge control. R.R. Hale*, J.K. Norsworthy, J.A. Godwin Jr., M.L. Young, M.H. Moore; University of Arkansas, Fayetteville, AR (22)

Optimizing the efficacy of benzobicyclon by tank-mixing with other postflood herbicides. M.L. Young*¹, J.K. Norsworthy¹, R.C. Scott², R.R. Hale¹, M.R. Miller¹; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (23)

Understanding the risk of gene flow between grain sorghum (Sorghum bicolor) and johnsongrass (S. halepense). M.N. Carlson*¹, W. Rooney², G. Hodnett¹, M. Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Texas A & M University, College Station, TX (24)

Postemergence premix of S-metolachlor, atrazine and mesotrione in combination with metribuzin for fall panicum control in sugarcane. D. Odero*, J.V. Fernandez; University of Florida, Belle Glade, FL (25)

Response of Coastal Bermudagrass to Selected Low Use Rates of Glyphosate. M.W. Marshall*, C.H. Sanders; Clemson University, Blackville, SC (26)
Evaluation of Spot Spray Options for Resistant Palmer Amaranth. A.W. Ross*, T. Barber1, R.C. Doherty2, Z. Hill3; 1University of Arkansas, Lonoke, AR, 2University of Arkansas, Monticello, AR, 3University of Arkansas Extension, Monticello, AR (27)

Palmer amaranth management model (PAM): A user-friendly decision support tool. M.V. Bagavathiannan*1, K. Lindsay2, M. Lacoste3, M. Popp2, S. Powles4, J.K. Norsworthy2; 1Texas A&M University, College Station, TX, 2University of Arkansas, Fayetteville, AR, 3University of Western Australia, Perth, Australia (28)

Laboratory Methods for Determining Volatility Potential of Herbicides. D.G. Ouse*, J.G. Gifford; Dow AgroSciences, Indianapolis, IN (29)

Effects of Sub-Lethal Dicamba Rates Applied to Soybean Cultivars During the Reproductive Stage. A. Growe*, W.J. Everman; North Carolina State University, Raleigh, NC (30)

Characterization of roadside feral sorghum populations in southern Texas: implications for novel trait management. S. Ohadi*1, W. Rooney1, M. Bagavathiannan2; 1Texas A & M University, College Station, TX, 2Texas A&M University, College Station, TX (31)

Rate, Formulation, and Tunnel Effect on Soybean and Cotton Injury from 2,4-D Volatility. G.R. Oakley*, D.B. Reynolds; Mississippi State University, Mississippi State, MS (32)

Impact of activated charcoal on herbicide injury in vegetable crops. V. Singh*4, J. Masabni2, P. Baumann1, T. Isakeit3, M. Matocha3, T. Provin1, K.H. Carson3, R. Liu3, M. Bagavathiannan1; 1Texas A&M University, college station, TX, 2Texas A&M University, Overton, TX, 3Texas A&M University, College Station, TX (33)

Impact of long-term tillage practices on weed population dynamics in a continuous soybean production system in Central Texas. P. Govindasamy*1, J. Mowrer1, T. Provin1, F.M. Hons1, M. Bagavathiannan2; 1Texas A&M university, College Station, TX, 2Texas A&M University, College Station, TX (34)

Evaluation of the impact of harvest-time and post-harvest integrated tactics for managing johnsongrass in Inzen™ sorghum. B.L. Young*, J.K. Norsworthy2, M.V. Bagavathiannan1, L.M. Schwartz2, M.J. Walsh3; 1Texas A&M University, College Station, TX, 2University of Arkansas, Fayetteville, AR, 3The University of Sydney, Sydney, Australia (35)

Confirmation of glyphosate, ALS- and PPO-resistant common ragweed in North Carolina. B.W. Schrage*, W.J. Everman; North Carolina State University, Raleigh, NC (37)

Effect of pre-plant nitrogen (N) rates on wheat yield in corn/sorghum-wheat rotation. M.K. Bansal*, W.J. Everman; North Carolina State University, Raleigh, NC (38)

Does fluridone stimulate the germination of Palmer amaranth? S.E. Abugho*, V. Singh, S. Ohadi, M.V. Bagavathiannan; 1University of Arkansas, Fayetteville, AR, 2Texas A&M University, college station, TX, 3Texas A&M University, College Station, TX (39)

Bioherbicidal Efficacy of a *Myrothecium verrucaria*-Sector on Several Plant Species. R.E. Hoagland*, C. Boyette, K.C. Stetina, R.H. Jordan; 1USDA-ARS, Stoneville, MS, 2USDA_ARS, Stoneville, MS (40)

Testing of Herbicides and Adjuvants for Tank Mix Compatibility in Oklahoma Roadside Vegetation Management Programs. C.Z. Hurst*, L.J. Calhoun, D. Martin; Oklahoma State University, Stillwater, OK (41)

Evaluation of Potential Herbicides and Herbicide Programs for Use in Lima Bean Production. C.E. Rouse*, T.M. Penka, N.R. Burgos; 1University of Arkansas, Fayetteville, AR, 2University of Arkansas, Amarillo, AR (42)

Use of EH1587 for Postemergence Broadleaf Weed Control in Turf. G.M. Henry*, K.A. Tucker, J.T. Brosnan, G.K. Breeden, A.G. Estes; 1University of Georgia, Athens, GA, 2University of Tennessee, Knoxville, TN, 3PBI Gordon Corporation, Pendleton, SC (43)

Peanut Response to Terbacil. E.P. Prostko*, O.W. Carter; 1University of Georgia, Tifton, GA, 2The University of Georgia, Tifton, GA (44)

Rescuegrass control in tall fescue with HPPD-inhibitors. J. Yu*, P. McCullough; 1Univ. of Georgia, Griffin, GA, 2University of Georgia, Griffin, GA (45)

Goosegrass control in creeping bentgrass golf greens with topramezone. S. Williams*, P. McCullough; University of Georgia, Griffin, GA (46)
Fragrant kyllinga control in bermudagrass with Celsius, Tribute Total, and sulfentrazone combination products. P. McCullough*, S. Williams; University of Georgia, Griffin, GA (47)

Loyant Activity on Weeds Common to South Louisiana Rice Production Systems. G. Mack Telo*, E.P. Webster, B.M. McKnight, S.Y. Rustom Jr, E.A. Bergeron; Louisiana State University AgCenter, Baton Rouge, LA (48)

The University of Tennessee Herbicide Stewardship Educational Program: an Update. N. Rhodes*1, D. McIntosh2, L. Steckel3; 1University of Tennessee, Knoxville, TN, 2The University of Tennessee, Knoxville, TN, 3The University of Tennessee, Jackson, TN (49)

Using a cereal rye/crimson clover cover crop mulch for weed suppression in conventional and organic cotton production. R.A. Atwell*1, S.C. Reberg-Horton2, A.C. York1; 1North Carolina State University, Raleigh, NC, 2NCSU, Raleigh, NC (50)

Monitoring Seasonal CO2 Efflux of Dallisgrass and Bermudagrass: Implications for Non-selective Dallisgrass Control. C.R. Johnston*, G.M. Henry; University of Georgia, Athens, GA (51)

Response of Bahiagrass and Dallisgrass to Verticutting Frequency. G.M. Henry*, R.A. Grubbs, C.R. Johnston; University of Georgia, Athens, GA (52)

Optimizing Warrant™ Herbicide Placement in a Pigweed (Amaranthus spp.) Control Program for Roundup Ready 2 Xtend Soybean Production. J. Buol*1, D.B. Reynolds1, A. Mills2; 1Mississippi State University, Mississippi State, MS, 2Monsanto Company, Collierville, TN (53)

Sesame response to PRE herbicides applied early postemergence. W. Grichar*1, P.A. Dotray2, J.A. Tredaway3; J.J. Rose4; 1Texas AgriLife Research, Yoakum, TX, 2Texas A&M AgriLife Research, Lubbock, TX, 3Auburn University, Auburn, AL, 4Sesco Corp, Austin, TX (54)


Overview of the University of Tennessee Weed Diagnostics Center. J.T. Brosnan*, J.J. Vargas, G.K. Breeden, R.J. Trigiano, S.L. Boggess; University of Tennessee, Knoxville, TN (56)

Impact of reduced rates of 2,4-D and dicamba on sweet potato. D.K. Miller*; LSU AgCenter, St. Joseph, LA (57)
Response of glyphosate-resistant and -susceptible Italian ryegrass (*Lolium Multiﬂorum*) to herbicide, crop interference, and drought stress. S. Chaudhari*, D.L. Jordan, A.C. York, K.M. Jennings, C.W. Cahoon, A. Chandi, M.D. Inman, R.J. Richardson, A. Brown; 1North Carolina State University, Raleigh, NC, 2Virginia Tech, Painter, VA, 3DuPont Crop Protection, Newark, DE (58)

Eradication of Rhizome Johnson grass from fields by Intercropping with Pigeon pea. V. Kankarla*, F. Bullock; Tennessee State University, Nashville, TN (59)

Postemergence Control of Carolina Dichondra (*Dichondra carolinensis* Michx.) in Hybrid Bermudagrass. G.M. Henry*, K.A. Tucker; University of Georgia, Athens, GA (60)

Preemergence and postemergence control of PPO-resistant Palmer amaranth in Roundup Ready 2 Xtend soybean. M.M. Houston*, T. Barber, J.K. Norsworthy, H.D. Bowman, J. Rose; 1University of Arkansas, Fayetteville, AR, 2University of Arkansas, Lonoke, AR (61)


Rice response to simulated drift of paraquat applied in proportional carrier volume. B.H. Lawrence*, J.A. Bond, B.R. Golden, H.T. Hydrick, J.M. McCoy; 1Mississippi State University, Stoneville, MS, 2Mississippi State University, Stoneville, AR (63)

Residual Herbicides for Palmer Amaranth Control in Cotton. M.C. Askew*, C.W. Cahoon, A.C. York; 1Virginia Tech, Blacksburg, VA, 2Virginia Tech, Painter, VA, 3North Carolina State University, Raleigh, NC (64)

Timing of Palmer Amaranth Removal on Sweetpotato Yield and Quality. S.C. Smith*, K.M. Jennings, D.W. Monks; 1North Carolina State University, Hendersonville, NC, 2North Carolina State University, Raleigh, NC, 3NC State University, Raleigh, NC (65)


Pre-Emergence Herbicide Longevity on Palmer Amaranth Control in Cotton. J.L. Reeves*, S. Steckel, L.E. Steckel; University of Tennessee, Jackson, TN (67)
Resurrection of Glyphosate Resistant Palmer amaranth Control in Conservation Tillage Engenia Cotton; Soil Health Salvation using Herbicide Technology. A.J. Price*, J.A. Tredaway², G.S. Stapleton³; ¹USDA, Auburn, AL, ²Auburn University, Auburn, AL, ³BASF, Dyersburg, TN (68)

Efficacy of herbicide programs in Balance GT Soybean. J.D. Peeples*, H.M. Edwards¹, T.L. Phillips¹, J.A. Bond¹, S. Garris²; ¹Mississippi State University, Stoneville, MS, ²Bayer CropScience, Benton, MS (69)

Metsulfuron-induced symptomology on select tree species. S.W. Tillery*, J.S. McElroy, A.P. Boyd, W. Head; Auburn University, Auburn, AL (70)

Effect of Mowing Timing on Johnsongrass Herbicide Efficacy: Two Year Summary. J. Omelian*, M. Barrett; University of Kentucky, Lexington, KY (71)

Competitive and non-competitive adsorption/desorption of diuron, hexazinone, and sulfometuron in five Texas soils. F. Reis¹, K.H. Carson*², M. Bagavathiannan², V. Tornisieloº, R. Filho¹; ¹ESALQ, USP, Piracicaba, Brazil, ²Texas A&M University, College Station, TX, ³CENA, USP, Piracicaba, Brazil (72)

Weed Control Spectrum of Benzobicyclon when Applied at Different Rates. B.M. McKnight*, E.P. Webster, E.A. Bergeron, G. Mack Telo, S.Y. Rustom Jr; Louisiana State University AgCenter, Baton Rouge, LA (73)

Indaziflam for clear zones on Mississippi roadsides. V.L. Maddox*, J.D. Byrd, Jr., J. Belcher²; ¹Mississippi State University, Mississippi State, MS, ²Bayer CropScience, Auburn, AL (74)

Antagonism of Quizalofop in ACCase-Resistant Rice. S.Y. Rustom*, E.P. Webster, B.M. McKnight, E.A. Bergeron, G. Mack Telo; Louisiana State University AgCenter, Baton Rouge, LA (75)

Tissue-specific distribution of anthraquinone compounds in sicklepod plants using fluorescence microscopy. Z. Yue*, T.P. Tseng; Mississippi State University, Starkville, MS (76)

Effects of emergence date and inter-row Palmer amaranth distance on its biological and phenological characteristics. N.E. Korres*, J.K. Norsworthy; University of Arkansas, Fayetteville, AR (77)

Characterizing Soybean (Glycine max) and Cotton (Gossypium hirsutum) Phytotoxic Response to Commercial Tank Cleaners. Z.A. Carpenter*, D.B. Reynolds; Mississippi State University, Mississippi State, MS (78)
Evaluation of sesame tolerance to various herbicides.
K.M. Werner*, J.J. Rose, W. Grichar, M.V. Bagavathiannan. 1Texas A&M University, College Station, TX, 2Sesaco Corp, Austin, TX, 3Texas AgriLife Research, Yoakum, TX (79)

Safening Grain Sorghum to Postemergence Application of Mesotrione.  M.T. Bararpour*, J.K. Norsworthy, R.R. Hale, G.T. Jones; University of Arkansas, Fayetteville, AR (80)

Nealley’s Sprangletop (Leptochloa nealleyi): Interference and Management in Louisiana Rice Production Systems. E.A. Bergeron*, E.P. Webster, B.M. McKnight, S.Y. Rustom Jr, G. Mack Telo; Louisiana State University AgCenter, Baton Rouge, LA (81)

Graduate Student Posters (MS only)

*PRESENTER †STUDENT POSTER CONTEST

†Influence of formulation and rate on rice tolerance to early season applications of acetochlor. M.E. Fogleman*, J.K. Norsworthy, J.A. Godwin Jr., M.L. Young; University of Arkansas, Fayetteville, AR (82)

†Effect of topramezone and synthetic auxin herbicides on sugarcane. R.M. Negrisoli*, D. Odero, J.V. Fernandez; University of Florida, Belle Glade, FL (83)

†Surveying herbicide resistance in Palmer amaranth and waterhemp in Texas. R.A. Garetson*, P.A. Dotray, M.V. Bagavathiannan. 1Texas A&M University, College Station, TX, 2Texas A&M AgriLife Research, Lubbock, TX (84)

†Effect of Nozzle Type on Palmer amaranth Control. S.S. Davis*, D.M. Dodds, D.B. Denton; Mississippi State University, Starkville, MS (85)

†Does the addition of thiencarbazone-methyl to soil-applied herbicides increase length of length of residual and spectrum of control? Z.D. Lancaster*, J.K. Norsworthy, M.H. Moore, R.R. Hale; University of Arkansas, Fayetteville, AR (86)

†Quantification of late-season seed production in Palmer amaranth and waterhemp prior to cotton harvest in different regions of Texas. K.M. Werner*, P.A. Dotray, K. Smith, R. Nichols, M.V. Bagavathiannan. 1Texas A&M University, College Station, TX, 2Texas A&M AgriLife Research, Lubbock, TX, 3FMC Corporation, College Station, TX, 4Cotton Incorporated, College Station, TX (87)
†The Effect of Grasp® (penoxsulam) and Regiment® (bispyribac) Concentration on BOLT™ Soybean (Glycine max) Growth and Yield. D.C. Walker*,1, D.B. Reynolds2, J.A. Bond3; 1Mississippi State University, Starkville, MS, 2Mississippi State University, Mississippi State, MS, 3Mississippi State University, Stoneville, MS (88)

†Cotton Harvest Aid Performance with Various Spray Tips. B.R. Wilson*,1, D.M. Dodds1, S.A. Byrd2, A.S. Jones3; 1Mississippi State University, Starkville, MS, 2Texas A&M University AgriLife Extension, Lubbock, TX, 3University of Missouri, Portageville, MO (89)

†Evaluation of preemergence herbicides applied PRE- and POST-crimp in a rye cover crop system for control of broadleaf weeds in watermelons. L.C. Hand*,1, T. Monday2, W.G. Foshee1, D. Wells1; 1Auburn University, Auburn, AL, 2Auburn University, Opelika, AL (90)

†Cotton Weed Control with Auxin Herbicide Technologies. J.D. Bost*,1, Z.A. Carpenter1, D.C. Walker2, D.B. Reynolds1; 1Mississippi State University, Mississippi State, MS, 2Mississippi State University, Starkville, MS (91)

†Remote Sensing Applications for Palmer Amaranth Detection. J.T. Sanders*, W.J. Everman; North Carolina State University, Raleigh, NC (92)

†Weed management systems in XtendFlex cotton on the Texas High Plains. K.R. Russell*,1, P.A. Dotray1, W. Keeling2, S. Taylor2, J. Everitt3; 1Texas Tech University, Lubbock, TX, 2Texas A&M AgriLife Research, Lubbock, TX, 3Monsanto, Lubbock, TX (93)

†Influence of Carrier Volume and Nozzle Selection on the Performance of Liberty in Tank-Mix Combinations. S.L. Taylor*,1, P.A. Dotray2, W. Keeling1, R. Perkins3; 1Texas A&M AgriLife Research, Lubbock, TX, 2Texas Tech University, Lubbock, TX, 3Bayer CropScience, Idalou, TX (94)

†Do insecticide seed treatments lessen the risk for injury to soybean from herbicides? N.R. Steppig*,1, J.K. Norsworthy1, R.C. Scott2, R.R. Hale1; 1University of Arkansas, Fayetteville, AR, 2University of Arkansas, Lonoke, AR (95)

†Thifensulfuron Resistant Mouse-ear Cress (Arabidopsis thaliana) Control with Pre- and Post-emergence Herbicides in Winter Wheat. R.S. Randhawa*,1, M.L. Flessner1, J.H. Westwood1, C.W. Cahoon2; 1Virginia Tech, Blacksburg, VA, 2Virginia Tech, Painter, VA (96)
†Efficacy of tank-mixes containing topramezone for barnyardgrass control in rice. M.H. Moore*, R.C. Scott†, J.K. Norsworthy†, J.A. Godwin†, R.R. Hale†; 1University of Arkansas, Fayetteville, AR, 2University of Arkansas, Lonoke, AR (97)

†Emergence of 6 Grass Species in North Carolina. W.J. Everman, M.T. Schroeder*; North Carolina State University, Raleigh, NC (98)

†Preemergence and postemergence tolerance of new soybean technologies to auxin herbicides. J.S. Rose*, T. Barber†, J.K. Norsworthy†, H.D. Bowman†, M.M. Houston†; 1University of Arkansas, Fayetteville, AR, 2University of Arkansas, Lonoke, AR (99)

†Germination behavior of Echinochloa with different resistant patterns under various Environmental Conditions and Seed Burial Depths. T.M. Penka*, N.R. Burgos‡; 1University of Arkansas, Amarillo, AR, 2University of Arkansas, Fayetteville, AR (100)

†Evaluation of HPPD-inhibiting herbicides for morningglory species control in corn. W.C. Greene*, J.A. Tredaway†, A.J. Price‡, T. Cutts†, W.B. Greer‡; 1Auburn University, Auburn, AL, 2USDA, Auburn, AL (101)

†The Effects of Mulching, Tillage, and herbicides on Weed Control and Watermelon Yield. J.P. Williams*, A.J. Price‡, J.S. McElroy†, S. Li†, E. Guertal‡; 1Auburn University, Auburn, AL, 2USDA-ARS, Auburn, AL (102)

†Evaluation of Inzen Grain Sorghum herbicide programs. H.D. Bowman*, T. Barber†, J.K. Norsworthy†, J. Rose†, N. Steppig†, R.R. Hale†; 1University of Arkansas, Fayetteville, AR, 2University of Arkansas, Lonoke, AR (103)

†Considerations with Harvest Aid Use in the Mid-South. J.W. Smith*, J.M. Orlowski†, T. Irby‡, H.A. Sullivan†; 1Mississippi State University, Stoneville, MS, 2Mississippi State University, Mississippi State, MS (104)

†Influence of Timing of Weed Management on Weed Control and Yield of Five Agronomic Crops. D.T. Hare*, D.L. Jordan, M.D. Inman, A.C. York; North Carolina State University, Raleigh, NC (105)

†Exploring Allelopathic Potential of Weedy Rice: Step towards Breeding Weed Suppressive Rice Cultivar. S. Shrestha*, T. Tseng; Mississippi State University, Starkville, MS (106)
Graduate Student Posters (PhD only)

*PRESENTER †STUDENT POSTER CONTEST

†Field performance of a novel 2,4-D tolerant red clover (*Trifolium pratense*). L.P. Araujo*, M. Barrett, L.D. Williams, G.L. Olson; University of Kentucky, Lexington, KY (107)

†Tolerance of GlyTol®/LibertyLink® Cotton to Various Herbicide Tank Mix Combinations. M.T. Plumblee*, D.M. Dodds, C.A. Samples, D.B. Denton, S.S. Davis, L. Franca, B.R. Wilson; Mississippi State University, Starkville, MS (108)

†Development of a Model to Predict Soybean Yield Loss following Dicamba Exposure. M.R. Foster*, J.L. Griffin1, J.T. Copes2, D.K. Miller3; 1LSU AgCenter, Baton Rouge, LA, 2Louisiana State University AgCenter, St. Joseph, LA, 3LSU AgCenter, St. Joseph, LA (109)

†Crop safety and weed control following dicamba and acetochlor applications in XtendFlex® cotton. L. Franca*1, D.M. Dodds1, D.B. Reynolds2, J.A. Bond3, A. Mills4, C.A. Samples1, M.T. Plumblee1, D.B. Denton1; 1Mississippi State University, Starkville, MS, 2Mississippi State University, Mississippi State, MS, 3Mississippi State University, Stoneville, MS, 4Monsanto Company, Collierville, TN (110)

†Instituting Palmer amaranth response to glufosinate in a North Carolina population. D. Copeland*, W.J. Everman, A.C. York; North Carolina State University, Raleigh, NC (111)

†Selective Goosegrass Control in Bermudagrass Using Topramezone and Chelated Iron. A.P. Boyd*, J.S. McElroy1, W. Head1, P. McCullough2; 1Auburn University, Auburn, AL, 2University of Georgia, Griffin, GA (112)

†Including Herbicides in Sunn Hemp (*Crotolaria juncea* L.) Cover Crop for Weed Control. T.M. Batts*, P.J. Dittmar; University of Florida, Gainesville, FL (113)

†Seed shattering of six prevalent weed species in North Carolina. T.A. Reinhardt*, W.J. Everman2; 1North Carolina State University, Raleigh, IL, 2North Carolina State University, Raleigh, NC (114)

†Relative Activity of Four Triclopyr Formulations. J.C. Dias*, A. Banu2, S.F. Enloe4, J. Ferrell3, B.A. Sellers4; 1University of Florida, Ona, FL, 2University of Florida, Gainesville, India, 3University of Florida, Gainesville, FL, 4University of Florida, Wachula, FL (115)
†Physiological Impact of CO₂ Levels on Multiple Herbicide-Resistant Echinochloa colona. C. Oliveira*, L. Piveta, J. Refatti, D. Agostinetto, N.R. Burgos; ¹Universidade Federal de Pelotas, Pelotas, Brazil, ²University of Arkansas, Fayetteville, AR (116)

†Cotton and Weed Response to Timing of Herbicide Application. M.D. Inman*, D.L. Jordan, D.T. Hare, A.C. York, M.C. Vann; North Carolina State University, Raleigh, NC (117)

†Effect of in-row vegetation-free strip width on growth, yield, and fruit quality of ‘Navaho’ blackberry. N.T. Basinger*, K.M. Jennings, D.W. Monks, W.E. Mitchem; ¹North Carolina State University, Raleigh, NC, ²NC State University, Raleigh, NC (118)

MONDAY AFTERNOON   JANUARY 23

General Session

LOCATION: Wynfrey AB
TIME: 1:00 PM - 3:00 PM
CHAIR AND MODERATOR: Gary Schwarzlose, Bayer CropScience, Spring Branch, TX

*SPEAKER

1:00 Welcome and Announcements. G. Schwarzlose*; Bayer CropScience, Spring Branch, TX
1:05 Keynote Address. D.R. Sessions*; Alabama House of Representatives, Grand Bay, AL
1:30 Presidential Address. P.A. Dotray*; Texas A&M AgriLife Research, Lubbock, TX
1:45 SWSS 2016 Endowment Enrichment Scholarship Presentation. N.T. Basinger*; North Carolina State University, Raleigh, NC
2:00 SWSS 2016 Endowment Enrichment Scholarship Presentation. R.A. Atwell*; North Carolina State University, Raleigh, NC
2:15 SWSS 2016 Endowment Enrichment Scholarship Presentation. M.R. Miller*; University of Arkansas, Fayetteville, AR
2:30 Washington Policy Update. L.V. Wychen*; Science Policy Director, Glenmullen PL, VA
**MONDAY AFTERNOON  JANUARY 23**

**Break**

LOCATION:  Riverchase Ballroom  
TIME:  3:00 PM - 3:15 PM

**MONDAY AFTERNOON  JANUARY 23**

**Weed Management in Agronomic Crops**

LOCATION:  Wynfrey B  
TIME:  3:15 PM - 5:00 PM  
CHAIR:  Matthew Inman  
North Carolina State University  
Raleigh, NC  
MODERATOR:  Charles Cahoon  
Virginia Tech  
Painter, VA

*SPEAKER*

3:15  Glyphosate- and ALS-resistant Common Ragweed (*Ambrosia artemisiifolia*) Management in Cotton (*Gossypium hirsutum*).  
C.W. Cahoon*, M.L. Flessner*, T. Hines†;  
†Virginia Tech, Painter, VA, *Virginia Tech, Blacksburg, VA (119)

3:30  Demonstrating the benefit of adding Cobra to Liberty in a Liberty Link system to control common ragweed and horseweed in soybean.  
G. Cundiff*; Valent USA, Leland, MS (120)

3:45  Time of day and temperature influence Palmer amaranth efficacy with glufosinate.  
D. Copeland*, W.J. Everman; North Carolina State University, Raleigh, NC (121)

4:00  Critical Period of Grass Weed Control in Sorghum.  
M.T. Schroeder*, W.J. Everman; North Carolina State University, Raleigh, NC (122)
4:15  Controlling PPO-resistant Palmer amaranth using preemergence herbicides. T.A. Reinhardt*, D. Copeland2, W.J. Everman2;  
1North Carolina State University, Raleigh, IL,  
2North Carolina State University, Raleigh, NC (123)

4:30  Discussion

MONDAY AFTERNOON  JANUARY 23

Soil and Environmental Aspects of Weed Science / Weed Management in Aquatics

LOCATION: Wynfrey D  
TIME: 3:15 PM - 5:00 PM  
CHAIR AND MODERATOR: Thomas Mueller  
University of Tennessee Knoxville, TN

* SPEAKER

3:15  Effect of Formulation on Pyroxasulfone Dissipation in a Wheat Field Soil Environment. T.C. Mueller*; University of Tennessee, Knoxville, TN (125)

3:30  Evaluation of sethoxydim for torpedograss control in aquatic systems in Florida. S.F. Enloe*; University of Florida, Gainesville, FL (126)

3:45  Morphological Identification and Herbicide Efficacy of Water Primrose Complex (Ludwigia uruguayensis) in Florida. A. Banu*, C.C. Jacono, S.F. Enloe; University of Florida, Gainesville, FL (127)

4:00  Tank cleaning product comparison to remove auxin-type herbicide residues from spray equipment. T.C. Mueller*, M.L. Bernards2;  
1University of Tennessee, Knoxville, TN,  
2Western Illinois University, Macomb, IL (128)

4:15  Discussion

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MONDAY AFTERNOON  JANUARY 23

Weed Management in Horticultural Crops

LOCATION: Wynfrey E
TIME: 3:15 PM - 5:00 PM
CHAIR AND MODERATOR: Peter Dittmar
University of Florida
Gainesville, FL

*SPEAKER

3:15 Pre-Emergent Weed Management Program with Penoxsulam in Apple and Peach Orchards. W.E. Mitchem1, C. Holmberg*2; 1NC State University, Raleigh, NC; 2NC State University, Mills River, NC (129)

3:30 Handweeding Organic Vidalia Sweet Onion: Cost, Benefits, and Practicality. W.C. Johnson III*; USDA-ARS, Tifton, GA (130)

3:45 Preemergence applied Fluridone: Potato (Solanum tuberosum) Tolerance and Weed Control. C.W. Cahoon*1, M.L. Flessner2, T. Hines1; 1Virginia Tech, Painter, VA; 2Virginia Tech, Blacksburg, VA (131)

4:00 Squash and cole crop response to halosulfuron applied preplant over mulch. T. Randell*, S.C. Jenna, A.S. Culpepper;
University of Georgia, Tifton, GA (132)

4:15 Vegetable response to glufosinate applied preplant over mulch or applied in row middles. J.C. Smith*1, A.S. Culpepper1, K. Stewart1, K. Rucker2; 1University of Georgia, Tifton, GA, 2Bayer CropScience, Tifton, GA (133)

4:30 Postemergence weed control in row middles of plasticulture vegetable production. P.J. Dittmar*1, N.S. Boyd2; 1University of Florida, Gainesville, FL; 2University of Florida, Wimauma, FL (134)

4:45 Burn-down herbicides for strawberry crop termination when intercropping with vegetables. N.S. Boyd*; University of Florida, Wimauma, FL (135)
**TUESDAY MORNING  JANUARY 24**

**Graduate Student Contest Judges Breakfast**

LOCATION:  Wyndsor I  
TIME:  6:15 AM - 7:00 AM

**TUESDAY MORNING  JANUARY 24**

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

LOCATION:  Wynfrey A  
TIME:  7:10 AM - 11:15 AM  
CHAIR:  Hunter Perry  
Dow AgroSciences  
Greenville, MS  
CO-CHAIR:  Darrin Dodds  
Mississippi State University  
Mississippi State, MS  
MODERATOR:  Charles Cahoon  
Virginia Tech  
Painter, VA  

*SPEAKER  † STUDENT CONTEST  

7:10  Introduction  

7:15  †Off-target drift on late-season rice. J.S. Calhoun†, T. Barber‡, J.K. Norsworthy§, R.C. Doherty¶, Z.T. Hill‖; †University of Arkansas Cooperative Extension Service, Monticello, AR, §University of Arkansas, Lonoke, AR, ¶University of Arkansas, Fayetteville, AR, ‖University of Arkansas, Monticello, AR (136)

7:30  †The effect of herbicides on common Italian ryegrass (*Lolium perenne ssp. multiflorum*) Seed. D. Simmons†, T. Grey‡, W. Vencill§, A.S. Culpepper¶; †University of Georgia, TIFTON, GA, ‡University of Georgia, Tifton, GA, §University of Georgia, Athens, GA (137)

7:45  †Rice tolerance to long chain fatty acid-inhibiting herbicides. J.A. Godwin Jr.†, J.K. Norsworthy, M.L. Young, R.R. Hale, M.E. Fogleman; University of Arkansas, Fayetteville, AR (138)

8:00  †Response of irrigated peanut cultivars to herbicide tank mixes with paraquat. K.M.
8:15 †Evaluation of benzobicyclon on weedy rice populations from the Midsouth. M.L. Young*, J.K. Norsworthy, J.A. Godwin, M.H. Moore, M.E. Fogleman; University of Arkansas, Fayetteville, AR (140)


8:45 †Tank-mix interactions for barnyardgrass control in Provisia rice. R.R. Hale*, J.K. Norsworthy, Z.D. Lancaster, M.E. Fogleman, R.C. Scott; 1University of Arkansas, Fayetteville, AR, 2University of Arkansas, Lonoke, AR (142)

9:00 †The Effect of Cotton Growth Stage on Susceptibility and Fruiting Patterns Following Exposure to Sub-lethal Rates of 2,4-D or dicamba. J. Buol*, D.B. Reynolds, R. Nichols, A. Mills; 1Mississippi State University, Mississippi State, MS, 2Cotton Incorporated, College Station, TX, 3Monsanto Company, Collierville, TN (143)

9:15 †Quizalofop Mixture Interactions in ACCase-Resistant Rice. S.Y. Rustom*, E.P. Webster, B.M. McKnight, E.A. Bergeron, G. Mack Telo; Louisiana State University AgCenter, Baton Rouge, LA (144)

9:30 Break

9:45 †Effects of Preemergence Herbicides on Sprigged Establishment of Hybrid Bermudagrass. E.G. Begitschke*, J. McCurdy, T. Tseng, C. Baldwin, B. Stewart, C. Barickman; Mississippi State University, Starkville, MS (145)

10:00 †Developing herbicide tolerant tomatoes: greenhouse screening to field characterization. G. Sharma*, Z. Yue, E. Avila dos Santos, T. Tseng; 1Mississippi State University, Starkville, MS, 2Universidade Federal De Santa Maria, Santa Maria, Brazil (146)
10:15  †Effect of dicamba drift events on soybean progeny. G.T. Jones*, J.K. Norsworthy, J.A. Godwin, N.R. Steppig; University of Arkansas, Fayetteville, AR (147)

10:30  †Developing ACCase-inhibitor-resistant grain sorghum. M.N. Carlson*¹, W. Rooney², G. Hodnett¹, M. Bagavathiannan¹; ¹Texas A&M University, College Station, TX, ²Texas A & M University, College Station, TX (148)

10:45  †Evaluation of Plant Growth Regulators on Diamond Zoysiagrass Putting Greens. M.B. Addy*, L.B. McCarty, R.B. Cross; Clemson University, Clemson, SC (149)

11:00  †Impact of foliar fertilizer on herbicide performance in soybean. H.T. Hydrick*¹, J.A. Bond², B.R. Golden³, J.D. Peeples³, H.M. Edwards², T.L. Phillips³; ¹Stoneville - Delta Research and Extension Center, Stoneville, MS, ²Mississippi State University, Stoneville, MS, ³Mississippi State University, Stoneville, AR (150)

11:15  †Time of day effects on peanut weed control programs. O.W. Carter*¹, E.P. Prostko²; ¹The University of Georgia, Tifton, GA, ²University of Georgia, Tifton, GA (124)
Reynolds³, T. Irby³, A. Catchot³, J.T. Fowler Jr.⁴, L. Franca¹, M.T. Plumblee¹, S.S. Davis⁴, B.R. Wilson¹; ¹Mississippi State University, Starkville, MS, ²University of Nebraska - Lincoln, Lincoln, NE, ³Mississippi State University, Mississippi State, MS, ⁴Monsanto Company, St. Louis, MO (151)

7:30 †Preplant Applications of 2,4-D and dicamba in Sesame (Sesamum indicum L.), B.P. Sperry*¹, J. Ferrell¹, R. Leon², D. Rowland¹, M. Mulvaney²; ¹University of Florida, Gainesville, FL, ²University of Florida, Jay, FL (152)

7:45 †Implication of antagonistic tank mixtures in Enlist and Roundup Ready Xtend technologies. C.J. Meyer*, J.K. Norsworthy, J.K. Green, R.R. Hale; University of Arkansas, Fayetteville, AR (153)

8:00 †Characterization of Cold and Heat Tolerant Weedy Rice for Rice Improvement. S.D. Stallworth*¹, T. Tseng², S. Shrestha²; ¹Mississippi State University, Mississippi State, MS, ²Mississippi State University, Starkville, MS (154)

8:15 †Assessment of soil applied PPO-inhibiting herbicides and application rate on Glyphosate-Resistant Palmer amaranth (Amaranthus palmeri). A. Umphres-Lopez*¹, L.E. Steckel¹, T.C. Mueller¹; ¹University of Tennessee, Knoxville, TN, ²University of Tennessee, Jackson, TN (155)

8:30 †Potential Tank Mixtures for Postemergent Goosegrass (Eleusine indica (L) Gaertn) Control. B. Kerr*, L.B. McCarty, N. Gambrell, R.B. Cross; Clemson University, Clemson, SC (156)

8:45 †Evaluating Tank Cleaner Efficacy for Dicamba Removal from a Large Scale Sprayer. Z.A. Carpenter*, D.B. Reynolds, A.B. Johnson; Mississippi State University, Mississippi State, MS (157)

9:00 †Changing the ‘hack and squirt’ paradigm for woody invasive plant control. C.A. Lastinger*, S.F. Enloe; University of Florida, Gainesville, FL (158)

9:15 †Application Time of Day Effects on Burndown Herbicides Applied to PPO-Resistant and -Susceptible Palmer amaranth. G.B. Montgomery*¹, L. Steckel², J.L. Reeves³; ¹University of TN, Jackson, TN, ²The University of Tennessee, Jackson, TN, ³University of Tennessee, Jackson, TN (159)

9:30 Break
9:45 †Phragmites australis Response to Chemical Control Under Conditions of Elevated CO$_2$ and Temperature. C.M. Prince*, G. MacDonald, J.E. Erickson; University of Florida, Gainesville, FL (160)

10:00 †Evaluation of management options for glyphosate, ALS- and PPO-resistant common ragweed in North Carolina. B.W. Schrage*, W.J. Everman; North Carolina State University, Raleigh, NC (161)

10:15 †Field Dissipation of S-metolachlor in Organic and Mineral Soils in the Everglades Agricultural Area of South Florida. J.V. Fernandez*¹, D.C. Odero¹, G. MacDonald², J. Ferrell², B.A. Sellers³, P.C. Wilson²; ¹University of Florida, Belle Glade, FL, ²University of Florida, Gainesville, FL, ³University of Florida, Wachula, FL (162)

10:30 †Differential Response of PPO-resistant Palmer Amaranth Populations to Foliar and Soil-applied Herbicides. R.A. Salas*¹, N.R. Burgos¹, L. Piveta², J. Refatti², L.E. Estorninos¹, T.M. Penka³, R.C. Scott³; ¹University of Arkansas, Fayetteville, AR, ²Universidade Federal de Pelotas, Pelotas, Brazil, ³University of Arkansas, Amarillo, AR, ²University of Arkansas, Lonoke, AR (163)

10:45 †Critical Period for Weed Control in Grafted vs Nongrafted Watermelon. M.B. Bertucci*¹, D.W. Monks², K.M. Jennings¹, D.L. Jordan¹, F.J. Louws², J.R. Schultheis³; ¹North Carolina State University, Raleigh, NC, ²NC State University, Raleigh, NC (164)

11:00 †Surveying the level of herbicide-resistant weed infestation in Texas rice. R. Liu*¹, X. Zhou², M.V. Bagavathiannan³; ¹Texas A&M University, College station, TX, ²Texas A&M AgriLife research, college station, TX, ³Texas A&M University, College Station, TX (165)

11:15 †Effect of long-term tillage practices on soil physical properties and above and below ground weed diversity in continuous sorghum production. P. Govindasamy*¹, J. Mower¹, T. Provin¹, F.M. Hons¹, M. Bagavathiannan²; ¹Texas A&M university, College Station, TX, ²Texas A&M Univ., College Station, TX (166)

11:30 †Rescue Palmer amaranth control with dicamba plus glufosinate in XtendFlex® cotton. R.A. Atwell*¹, C.W. Cahoon², R.W.
Seagroves¹, M.C. Askew¹, A.C. York¹; ¹NCSU, Raleigh, NC, ²Virginia Tech, Painter, VA, ³NCSU, Raleigh, NC (167)

11:45 †Evaluation of the impact of flooding on the germination and growth of different rice weeds. S.E. Abugho*¹, X. Zhou², R. Liu², M.V. Bagavathiannan²; ¹University of Arkansas, Fayetteville, AR, ²Texas A&M AgriLife Research, College Station, TX, ³Texas A&M University, College Station, TX, ⁴Texas A&M University, College Station, TX (168)

12:00 †Long term atrazine use reduces soil persistence: does the same occur with metribuzin and simazine? E.T. Parker*, T.C. Mueller; University of Tennessee, Knoxville, TN (169)

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**TUESDAY MORNING  JANUARY 24**

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**Break**

LOCATION: Riverchase Ballroom
TIME: 9:30 AM - 10:00 AM

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**TUESDAY AFTERNOON  JANUARY 24**

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**New Technologies in Weed Science / Educational Aspects of Weed Control**

LOCATION: Yorkshire
TIME: 1 PM - 5 PM
CHAIR AND MODERATOR: Nilda Burgos
Univ. of Arkansas

*SPEAKER

1:00 Weed control assessment in grain sorghum using unmanned aerial systems (UAS). A. Rana*, M.V. Bagavathiannan, J. Valasek, D. Cope, A. Thomason, S. Yeyin; Texas A&M University, College Station, TX (170)

1:15 Provisia™ Rice System - New Technology for Control of Red Rice and other Grasses. A.R. Rhodes*¹, A. Adams², J.B. Guice³, J. Schultz⁴, D. Westberg⁵, C. Youmans⁶; ¹BASF, Madison, MS, ²BASF, RTP, NC, ³BASF, Winnsboro, LA, ⁴BASF, Sherwood, AR, ⁵BASF, Cary, NC, ⁶BASF, Dyersburg, TN (171)
1:30  Comparison of Non-STS, STS, and Bolt Soybean (*Glycine max*) Susceptibility to Grasp® (penoxsulam) and Regiment® (bispyrilam). D.C. Walker*, D.B. Reynolds1, J.A. Bond2; 1Mississippi State University, Starkville, MS, 2Mississippi State University, Mississippi State, MS (172)

1:45  Factors Influencing Off Target Movement of New Herbicide Formulations. D.M. Simpson*, D.G. Ouse, M. Li, J.G. Gifford, J.J. Schleier; Dow AgroSciences, Indianapolis, IN (173)

2:00  VaporGrip Technology; How it Works and its Benefits. A. MacInnes*; Monsanto, St. Louis, MO (174)

2:15  Soybean Varietal Response to Dicamba Applied at the Vegetative Growth Stage. A. Growe*, W. Everman; North Carolina State University, Raleigh, NC (175)

2:30  Discussion

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**TUESDAY AFTERNOON  JANUARY 24**

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Weed Management in Agronomic Crops

LOCATION: Wynfrey A  
TIME: 1:00 PM - 5:00 PM  
CHAIR: Matthew Inman  
North Carolina State University  
Raleigh, NC  
MODERATOR: Peter Eure  
Syngenta  
Houston, TX

*SPEAKER

1:00  Tolerance of Enlist cotton to various formulations of glufosinate. J. Richburg*, B. Bo2, H. Perry2, L.C. Walton2; 1Dow AgroSciences, Headland, AL, 2Dow AgroSciences, Indianapolis, IN (176)

1:15  DuPont Herbicide Programs for Waterhemp and Palmer Amaranth Control in Dicamba-Tolerant Soybeans. D. Johnson*, R. Rupp2, R. Edmund3, D. Smith4, E. Castner5, J. Krumm6, B. Steward7, M. Meyer8, K. Backscheider9, V. Klecsewski10; 1DuPont Crop Protection, Des Moines, IA, 2DuPont Crop Protection, Edmund, OK, 3DuPont Crop Protection, Little Rock, AR,
1:30 Loyant Herbicide Utilization in U.S. Mid-South Rice Weed Control Programs. H. Perry¹, J. Ellis², B. Haygood², M. Lovelace², M. Morell², L.C. Walton³; ¹Dow AgroSciences, Greenville, MS, ²Dow AgroSciences, Indianapolis, IN (178)

1:45 Tolerance of Conventional and Inzen Grain Sorghum to Soil Applied ALS-Inhibiting herbicides. H.D. Bowman¹, T. Barber², J.K. Norsworthy¹, J. Rose¹, N. Steppig¹; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (179)

2:00 Evaluating the fit for topramezone in rice. M.H. Moore¹, R.C. Scott³, J.K. Norsworthy¹, M.E. Fogleman¹, B.M. Davis³; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (180)

2:15 Planned Commercial Formulations Containing VaporGrip Technology for Use in the Roundup Ready 2 Xtend Crop System. A. MacInnes²; Monsanto, St. Louis, MO (181)

2:30 Evaluation of Engenia systems on DGT cotton in Alabama, Georgia, and Tennessee. J.A. Tredaway¹, A.S. Culpepper², L. Steckel³; ¹Auburn University, Auburn, AL, ²University of Georgia, Tifton, GA, ³The University of Tennessee, Jackson, TN (182)

2:45 Break

3:00 Utility of Elevore™ Herbicide with Arylex Active™ for Preplant Burndown Applications. J.M. Ellis⁴, L.C. Walton², J. Richburg², B. Haygood², R. Huckaba², M. Lovelace², H. Perry², M.A. Peterson²; ¹Dow AgroSciences, Smithville, MO, ²Dow AgroSciences, Indianapolis, IN (183)

3:15 A new S-metolachlor plus dicamba premix as an effective tool in an integrated management program in dicamba tolerant soybeans. J.C. Holloway⁴, S.R. Moore³, H.S. McLean¹, B.D. Black¹, D.J. Porter², B.R. Miller³; ¹Syngenta Crop Protection, Jackson, TN, ²Syngenta Crop Protection, Monroe, LA, ³Syngenta Crop Protect, Perry, GA, ⁴Syngenta Crop Protection, Searcy, AR, ⁵Syngenta Crop Protect, Greensboro, NC, ⁶Syngenta, Fargo, ND (184)
3:30  Preemergence and postemergence tolerance of new cotton technologies to auxin herbicides. J.S. Rose*, T. Barber, J.K. Norsworthy, H.D. Bowman, M.M. Houston; 1University of Arkansas, Fayetteville, AR, 2University of Arkansas, Lonoke, AR (185)

3:45  Evaluation of New Technologies in Oklahoma Cotton and Soybean. T.A. Baughman*, R.W. Peterson, D.L. Teeter, C.D. Curtsinger; Oklahoma State University, Ardmore, OK (186)

4:00  Application Stewardship of Engenia Herbicide in Dicamba Tolerant Crops. D.E. Westberg*, A. Adams; 1BASF, Cary, NC, 2BASF, RTP, NC (187)

4:15  Cotton responses to various soil herbicide treatments containing fomesafen and fluridone. S. Li*, M. Freeman; 1Auburn University, Auburn, AL, 2UGA extension, Hawkinsville, GA (188)

4:30  Discussion

TUESDAY AFTERNOON  JANUARY 24

Weed Management in Agronomic Crops

LOCATION: Wynfrey B
TIME: 1:00 PM - 5:00 PM
CHAIR: Matthew Inman
North Carolina State University
Raleigh, NC

MODERATOR: Drake Copeland
North Carolina State University
Raleigh, NC

*SPEAKER

1:00  Evaluation of LoyantTM for the control of common rice weeds as a single application and as a program's approach. Z.T. Hill*, T. Barber, R.C. Doherty, A. Ross; 1University of Arkansas Cooperative Extension Service, Monticello, AR, 2University of Arkansas, Lonoke, AR, 3University of Arkansas, Monticello, AR, 4University of Arkansas Extension, Lonoke, AR (189)

1:30 Efficacy of Enlist™ Weed Management Systems in U.S. Cotton - 2016. L.C. Walton*, B. Bo, J. Ellis, B. Haygood, R. Huckaba, M. Lovelace, H. Perry, J. Richburg; Dow AgroSciences, Indianapolis, IN (191)

1:45 Understanding the Sensitivity of Soybean to Off-Target Movement of Loyant™ Herbicide. M.R. Miller*, J.K. Norsworthy, M.L. Young, M.H. Moore; University of Arkansas, Fayetteville, AR (192)

2:00 Brake® Herbicide: Optimizing the Performance of a Cotton Weed Control System. K.R. Briscoe*; SePRO Corporation, Whitakers, NC (193)


2:30 DuPont Herbicide Programs for Marestail Control in Dicamba-Tolerant Soybean. K. Backscheider*, D. Johnson2, K.L. Hahn3, B. Steward4, J. Krumm5, V. Klecsewski6, M. Meyer2; 1DuPont Crop Protection, Franklin, IN, 2DuPont Crop Protection, Des Moines, IA, 3DuPont Crop Protection, Bloomington, IL, 4DuPont Crop Protection, Overland Park, KS, 5DuPont Crop Protection, Hastings, NE, 6DuPont Crop Protection, Middletown, DE, 7DuPont Crop Protection, Norwalk, IA (195)

2:45 Evaluation of Delayed Pre and Early Postemergence Control of Ryegrass in Winter Wheat. W.B. Greer*, J.A. Tredaway, W.C. Greene; Auburn University, Auburn, AL (196)

3:00 Tolerance of Enlist cotton to various herbicide tank combinations. B.R. Wilson*, D.M. Dodds, C.A. Samples, L. Franca, M.T. Plumblee, S.S. Davis, D.B. Denton; Mississippi State University, Starkville, MS (197)

3:15 Evaluation of Engenia herbicide in dicamba tolerant soybean No-Till systems. G.S. Stapleton*, K.L. Liberator2, A. Adams2, J.A. Tredaway3, L. Stecket4, M.L. Flessner5; 1BASF, Dyersburg, TN, 2BASF, RTP, NC, 3Auburn University, Auburn, AL, 4The Univ. of Tennessee, Jackson, TN, 5Virginia Tech, Blacksburg, VA (198)

3:45  XtendFlex Management in the Absence ofDicamba tank-mix partners. R.C. Doherty*, T. Barber, Z. Hill, A. Ross; 1University of Arkansas, Monticello, AR, 2University of Arkansas, Lonoke, AR, 3University of Arkansas Extension, Monticello, AR, 4University of Arkansas Extension, Lonoke, AR (200)

4:00  Weed Management with DiFlexx and DiFlexx DUO in Texas Corn. M.E. Matocha*, P.A. Baumann; 1Texas A&M AgriLife Extension, College Station, TX, 2Texas A&M University AgriLife Extension, College Station, TX (201)

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**TUESDAY AFTERNOON  JANUARY 24**

**Weed Management in Pastures, Rangeland, Utilities, and Forestry**

**LOCATION:** Wyndsor I

**TIME:** 1:00 PM - 5:00 AM

**CHAIR AND MODERATOR:** Stephen Enloe
University of Florida
Gainesville, FL

*SPEAKER*

1:00  Effect of treatment timing on natural pine and hardwood control following application of mixes containing aminopyralid or saflufenacil. A.W. Ezell*, A.B. Self;
Mississippi State University, Starkville, MS (202)

1:15  Screening Cleantraxx for herbaceous weed control in newly planted loblolly pine. J.L. Yeiser*, A.W. Ezell*, M. Olson; 1University of Arkansas at Monticello, Monticello, AR,
2Mississippi State University, Starkville, MS (203)
1:30 Mississippi highway rights-of-way: What are the 10 most common and 10 most troublesome weeds? J.D. Byrd, Jr.*1, V.L. Maddox¹, D.G. Thompson²; ¹Mississippi State University, Mississippi State, MS, ²Mississippi Department of Transportation, Jackson, MS (204)

1:45 Promoting Healthy ROW Habitat For Monarch Butterflies. L.J. Calhoun*, K. Baum; Oklahoma State University, Stillwater, OK (205)

2:00 Herbicide Applications on Honey Locust. J.R. Jackson*¹, J.R. Ansley², C.R. Hart³; ¹Texas A&M AgriLife Extension Service, Stephenville, TX, ²Texas A&M AgriLife Research, Vernon, TX, ³Dow AgroSciences, Stephenville, TX (206)

2:15 The Ultimate Challenge: Removing Undesirable Grasses from Pastures. D.P. Russell*, J.D. Byrd Jr., M.L. Zaccaro, N.H. Thorne; Mississippi State University, Mississippi State, MS (207)

2:30 Management of foxtail species (Setaria spp.) in hayfields with quinclorac and pendimethalin. M.L. Flessner*, Q.R. Johnson², R.S. Randhawa¹; ¹Virginia Tech, Blacksburg, VA, ²University of Delaware, Georgetown, DE (208)

2:45 Effect of Rainfall on Smutgrass Control with Hexazinone. J.C. Dias*; University of Florida, Ona, FL (209)

3:00 Friend or Foe, Do We Know? Response of Green Milkweed (Asclepias viridis) to Broadleaf Herbicides. N.H. Thorne*, J.D. Byrd, Jr., D.P. Russell; Mississippi State University, Mississippi State, MS (210)

3:15 Discussion
**Weed Management in Turf**

**LOCATION:** Wynfrey DE

**TIME:** 1:00 PM - 5:00 PM

**CHAIR AND MODERATOR:** Jay McCurdy

Mississippi State University

Starkville, MS

*SPEAKER*

1:00  **Tropical Signalgrass Control Update in Turf.**

L.B. McCarty*, R.B. Cross; Clemson University, Clemson, SC (211)

1:15  **Postemergence Control of Southern Watergrass** (*Luziola fluitans*) **and Torpedograss.**

R.B. Cross*, L.B. McCarty; Clemson University, Clemson, SC (212)

1:30  **Impact of metsulfuron and nitrogen fertility on centipedegrass.**

S.W. Tillery, J.S. McElroy*, A.P. Boyd¹, R. Leon², L.B. McCarty³, P. McCullough⁴, S. Kelly⁵, R. Baker⁶; ¹Auburn University, Auburn, AL, ²University of Florida, Gainesville, FL, ³Clemson University, Clemson, SC, ⁴University of Georgia, Griffin, GA, ⁵Scotts Company, Apopka, FL, ⁶Scotts Company, Marysville, OH (213)

1:45  **Influence of residual herbicide concentration and activated charcoal rate on bermudagrass sprig establishment.**

S. Askew*, J.M. Craft, S. Rana; Virginia Tech, Blacksburg, VA (214)

2:00  **Demonstration of a Python script for digital image analysis.**

J.S. McElroy*; Auburn University, Auburn, AL (215)

2:15  **Postemergence Goosegrass** (*Eleusine indica*) **Control with Speedzone.**

G.K. Breeden*, J.T. Brosnan¹, L.B. McCarty², N. Gambrell², A.G. Estes³; ¹University of Tennessee, Knoxville, TN, ²Clemson University, Clemson, SC, ³PBI Gordon Corporation, Pendleton, SC (216)

2:30  **Evaluating Effect of Immediate Irrigation on Postemerge Herbicides for Goosegrass Control.**

N. Gambrell*, L.B. McCarty; Clemson University, Clemson, SC (217)

2:45  **Break**
3:00  Herbicide programs for crabgrass and goosegrass control on creeping bentgrass greens. S. Askew*, J.R. Brewer; Virginia Tech, Blacksburg, VA (218)

3:15  The Use of PGR's to Reduce Mowing Frequency on Golf Course Roughs. P.J. Brown*, N. Gambrell, L.B. McCarty; Clemson University, Clemson, SC (219)

3:30  Annual bluegrass control in dormant zoysiagrass fairways. J.M. Craft*, J.R. Brewer, S. Askew; Virginia Tech, Blacksburg, VA (220)

3:45  Cross and multiple resistance in annual bluegrass (Poa annua L.) populations in Texas Golf courses. V. Singh¹, F.C. Reis², W. Reynolds³, M. Elmore⁴, M. Bagavathiannan⁵; ¹Texas A&M University, college station, TX, ²University of Sao Paulo, Sao Paulo, Brazil, ³Texas A&M University, College Station, TX, ⁴Texas A&M University, Dallas, TX (221)

4:00  Pronamide resistant annual bluegrass in Georgia turf. P. McCullough³¹, J. Yu², M. Czarnota¹; ¹University of Georgia, Griffin, GA, ²Univ. of Georgia, Griffin, GA (222)


4:30  ACCase-resistant southern crabgrass confirmed in Georgia turfgrass. J. Yu¹, P. McCullough², M. Czarnota²; ¹Univ. of Georgia, Griffin, GA, ²University of Georgia, Griffin, GA (224)

4:45  Discussion

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TUESDAY AFTERNOON  JANUARY 24

Break

LOCATION:  Riverchase Ballroom
TIME:  2:45 PM - 3:15 PM
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<tr>
<th>Event</th>
<th>Location</th>
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<tr>
<td><strong>Quiz Bowl</strong></td>
<td>Wynfrey C</td>
<td>5:00 PM - 6:00 PM</td>
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<td><strong>SWSS Dessert Social sponsored by BASF</strong></td>
<td>Wynfrey Ballroom DE</td>
<td>6:00 PM – 9:00 PM</td>
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<td><strong>SWSS Christian Fellowship Breakfast</strong></td>
<td>Wyndsor II</td>
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<td><strong>Break</strong></td>
<td>Riverchase Ballroom</td>
<td>10:00 AM - 10:30 AM</td>
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Symposium - Launching New Technology Systems: Roundup Ready® Xtend Crop System

LOCATION: Wynfrey AB
TIME: 8:00 AM - 10:00 AM
CHAIR AND MODERATOR: Ty Witten
Monsanto Company
St. Louis, MO

*SPEAKER

8:00 Drift Reduction Technology and Testing: Wind Tunnel to the Field. G.R. Kruger*, D.B. Reynolds; 1University of Nebraska - Lincoln, Lincoln, NE, 2Mississippi State University, Mississippi State, MS (225)

8:20 VaporGrip Technology & Field Volatility Testing. A. MacInnes*, J.W. Hemminghaus, T.B. Orr; Monsanto, St. Louis, MO (226)


8:55 Anticipated XtendiMax with VaporGrip technology Label Requirements. R.J. Rector*, J.W. Cubbage; Monsanto, St. Louis, MO (228)

9:20 Using Pesticides Wisely. E.P. Prostko1, T. Gray2, A.S. Culpepper*; 1University of Georgia, Tifton, GA, 2Georgia Department of Agriculture, Atlanta, GA (229)

9:35 Panel Discussion. T.K. Witten*, A.S. Culpepper2, G.R. Kruger3, D.B. Reynolds4, L. Steckel5, 1Monsanto, St. Louis, MO, 2University of Georgia, Tifton, GA, 3University of Nebraska - Lincoln, Lincoln, NE, 4Mississippi State University, Mississippi State, MS, 5The University of Tennessee, Jackson, TN (230)
**WEDNESDAY MORNING   JANUARY 25**

**Weed Management in Agronomic Crops**

**LOCATION:** Wynfrey DE  
**TIME:** 10:30 AM - 12:00 PM  
**CHAIR:** Matthew Inman  
North Carolina State University  
Raleigh, NC  
**MODERATOR:** Chase Samples  
Mississippi State University  
Starkville, MS

* SPEAKER

10:30  Effect of simulated flumioxazin drift on cotton and soybean. T.B. Buck*, D. Stephenson2, B.C. Woolam2; 1LSU AgCenter, Baton Rouge, LA, 2LSU AgCenter, Alexandria, LA (231)

10:45  Humidome: A New Method to Determine Volatility of Pesticides. W.K. Gavlick*; Monsanto, St. Louis, MO (232)

11:00  Influence of droplet size on lactofen and acifluorfen effectiveness for Palmer amaranth control. L. Franca*, D.M. Dodds1, G.R. Kruger2, T.R. Butts1, C.A. Samples1, M.T. Plumble1, D.B. Denton1, B.R. Wilson1, S.S. Davis1; 1Mississippi State University, Starkville, MS, 2University of Nebraska - Lincoln, Lincoln, NE (233)


11:30  The Effect of a Shielded Boom on Off-Target Movement of Various Size Spray Droplets. H.C. Foster*, D.B. Reynolds2, G.R. Kruger3, S. Claussen4; 1Mississippi State University, Starkville, MS, 2Mississippi State University, Mississippi State, MS, 3University of Nebraska - Lincoln, Lincoln, NE, 4Wilmar Fabrication, LLC, Willmar, MN (235)
11:45  Effect of Alternating Wetting and Drying Irrigation Systems on Photosynthesis and Temperature of Rice and Weed Plants. D.R. Gealy*, J. Rohila; USDA-ARS, DBNRC, Stuttgart, AR (236)

**WEDNESDAY MORNING  JANUARY 25**

**Weed Biology and Ecology**

LOCATION: Yorkshire
TIME: 10:30 AM - 12:00 PM
CHAIR AND MODERATOR: Angela Post
North Carolina State University
Raleigh, NC

*SPEAKER

10:30  Characterization of anthraquinones: A potential anti-herbivory compound in sicklepod. Z. Yue*, T.P. Tseng; Mississippi State University, Starkville, MS (237)

10:45  Palmer amaranth demographics in wide-row soybean. N.E. Korres*, J.K. Norsworthy; University of Arkansas, Fayetteville, AR (238)

11:00  Temperature effect on buckhorn plantain (Plantago lanceolata). T.L. Grey*, D. Simmons; ¹University of Georgia, Tifton, GA, ²University of Georgia, TIFTON, GA (239)

11:15  Using population studies to understand Palmer amaranth (Amaranthus palmeri) adaptations to cropping systems. W. Bravo¹, R. Leon¹, J. Ferrell¹, M. Mulvaney², W. Wood²; ¹University of Florida, Gainesville, FL, ²University of Florida, Jay, FL (240)

11:30  Modelling weed seedling emergence, so what? M.B. Mesgaran*; The University of Melbourne, Melbourne, Australia (241)

11:45  Fitness Cost Associated with Different Resistance Patterns in Echinochloa spp. in Arkansas. T.M. Penka¹, C. Oliveira², J.P. Refatti¹, L. Piveta², C.E. Rouse¹, N.R. Burgos³; ¹Univ of Arkansas, Amarillo, AR, ²Univ Federal de Pelotas, Pelotas, Brazil, ³UFPel, Pelotas, Brazil, ⁴Univ of Arkansas, Fayetteville, AR (242)
Graduate Student Luncheon

LOCATION: Wynfrey C
TIME: 12:00 PM - 2:00 PM
CHAIR: Drake Copeland
North Carolina State University
Raleigh, NC
MODERATOR: Drake Copeland
North Carolina State University
Raleigh, NC

Physiological & Biological Aspects of Weed Control

LOCATION: Yorkshire
TIME: 1:30 PM - 5:00 PM
CHAIR AND MODERATOR: Te-Ming Paul Tseng
Mississippi State University
Starkville, MS

*SPEAKER

1:30 Physiological Mechanisms of Resistance to Quinclorac in Multiple-Resistant Junglerice (Echinochloa colona). C.E. Rouse*, N.R. Burgos; University of Arkansas, Fayetteville, AR (243)

1:45 Transgene and Glyphosate Effects on Corn Leaf and Seed Mineral Content in Glyphosate-Resistant Isolines Grown on Glyphosate Legacy and No-Legacy Soils. K.N. Reddy*, S.O. Duke2, M.M. Williams3, J.E. Mual4, D.R. Shaw5, 1USDA-ARS, Stoneville, MS, 2USDA-ARS, University, MS, 3USDA-ARS, Urbana, IL, 4USDA-ARS, Beltsville, MD, 5Miss. State Univ, Mississippi State, MS (244)
2:00  Screening and Characterization of Herbicide Tolerance among Weedy Rice Germplasm. S. Shrestha*, G. Sharma, T. Tseng; Mississippi State University, Starkville, MS (245)

2:15  Herbicide tolerant tomato: identifying molecular markers and determining the tolerance mechanisms. H. Yates*, G. Sharma, S. Stallworth, T. Tseng; Mississippi State University, Mississippi State, MS, Mississippi State University, Starkville, MS (246)

2:30  Break

2:45  Time of Application Influences Auxinic Herbicide Translocation. C.R. Johnston*, P. Eure, T. Grey, A.S. Culpepper, W. Vencill; 1University of Georgia, Athens, GA, 2Syngenta, Houston, TX, 3University of Georgia, Tifton, GA (247)

3:00  Can New Adjuvants alter Plant-Herbicide Interaction? N.R. Burgos*, R.A. Salas, J. Refatti, T. Abbas, C.E. Rouse, T.M. Penka, C. Oliveira; 1University of Arkansas, Fayetteville, AR, 2Universidade Federal de Pelotas, Pelotas, Brazil, 3University of Arkansas, Amarillo, AR (248)

3:15  Use of insecticide seed treatments as potential herbicide safeners in grain sorghum. N.R. Steppig*, J.K. Norsworthy, R.C. Scott, J.K. Green; 1University of Arkansas, Fayetteville, AR, 2University of Arkansas, Lonoke, AR (249)


3:45  Sorgoleone (sorghum root exudate) effects on in vitro growth of different wheat and weed species. M.K. Bansal*, W.J. Everman; North Carolina State University, Raleigh, NC (251)

4:00  Discussion
Weed Management in Agronomic Crops

LOCATION: Wynfrey B
TIME: 1:30 PM - 5:00 PM
CHAIR: Matthew Inman
North Carolina State University
Raleigh, NC
MODERATOR: Garret Montgomery
University of TN
Jackson, TN

*SPEAKER

1:30 Evaluation of POST applied Chloroacetamides in combination with glufosinate in cotton. W.C. Greene*, J.A. Tredaway¹, A.J. Price², T. Cutts¹, W.B. Greer¹;
¹Auburn University, Auburn, AL, ²USDA, Auburn, AL (252)

1:45 Nitrogen fertilizer programs following rice exposure to paraquat. B.H. Lawrence*, J.A. Bond¹, B.R. Golden², H.T. Hydrick¹, H.M. Edwards¹; ¹Mississippi State University, Stoneville, MS, ²Mississippi State University, Stoneville, AR (253)

2:00 Impact of Cool Season Cover Crops and Selected Herbicide Programs on Palmer Amaranth Populations in Cotton. M.W. Marshall*, C.H. Sanders; Clemson University, Blackville, SC (254)

2:15 Thifensulfuron Resistance Quantification in Mouse-ear Cress (Arabidopsis thaliana) and Cross Resistance to Other ALS Inhibiting Chemistries. R.S. Randhawa*, M.L. Flessner¹, C.W. Cahoon², J.H. Westwood¹; ¹Virginia Tech, Blacksburg, VA, ²Virginia Tech, Painter, VA (255)

2:30 Break

2:45 Glyphosate-Resistant Barnyardgrass in Tennessee and Mississippi. L.E. Steckel*, J.A. Bond², G.B. Montgomery¹, T.L. Phillips², V. Nandula³; ¹University of Tennessee, Jackson, TN, ²Mississippi State University, Stoneville, MS, ³University of TN, Jackson, TN, ⁴USDA, Stoneville, MS (256)
3:00  Rice cultivar response to late-season exposure to glyphosate or paraquat. J.M. McCoy*, J.A. Bond¹, B.R. Golden², B.H. Lawrence³; ¹Mississippi State University, Stoneville, MS, ²Mississippi State University, Stoneville, AR (257)

3:15  What have we learned after a year of on-farm research on PPO-resistant Palmer amaranth? J.K. Norsworthy*, T. Barber², R.C. Scott³; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (258)

3:30  Tolerance of LibertyLink varieties to preemergence and postemergence applications of thiencarbazone-methyl. Z.D. Lancaster*, J.K. Norsworthy, J.A. Godwin, N.R. Steppig; University of Arkansas, Fayetteville, AR (259)

3:45  Preemergence and postemergence control of PPO-resistant Palmer amaranth in Roundup Ready 2 Xtend soybean. M.M. Houston*, T. Barber², J.K. Norsworthy¹, H.D. Bowman¹, J.S. Rose¹; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR (260)

4:00  Discussion
1:45 Control of Turfgrass Weeds with Two New Halauxifen-methyl Containing Formulations (GF-3566 and GF-2687) in Cool and Warm Season Turfgrass. A.L. Alexander*1, J. Breuninger2, D. Loughner3, V. Peterson4; 1Dow AgroSciences, LLC, Lawrenceville, GA, 2Dow AgroSciences, LLC, Zionsville, IN, 3Dow AgroSciences, Lawrenceville, NJ, 4Dow AgroSciences, LLC, Fort Collins, CO (262)

2:00 EH1587: New Technology in Broadleaf Weed Control. J. Marvin*1, A. Estes2; 1PBI/Gordon, Kansas City, MO, 2PBI/Gordon, Pendleton, SC (263)


2:30 Break

2:45 Green kyllinga and yellow nutsedge control with pyrimisulfan. J.M. Craft*, S. Askew, J.R. Brewer, S. Rana; Virginia Tech, Blacksburg, VA (265)

3:00 Preemergence Crabgrass spp. Control with EH1579 and EH1580 containing Vexis in Bermudagrass Turf. G.M. Henry*1, K.A. Tucker1, J.T. Brosnan2, G.K. Breeden2, A.G. Estes3; 1University of Georgia, Athens, GA, 2University of Tennessee, Knoxville, TN, 3PBI Gordon Corporation, Pendleton, SC (266)

3:15 Mixing metribuzin with mesotrione or topramezone for weed control in bermudagrass turf. J.R. Brewer*, J.M. Craft, S. Askew; Virginia Tech, Blacksburg, VA (267)

3:30 Reducing Bermudagrass Injury of Topramezone utilizing Chelated Iron. A.P. Boyd*1, J.S. McElroy1, W. Head1, P. McCullough2; 1Auburn University, Auburn, AL, 2University of Georgia, Griffin, GA (268)

3:45 Bermudagrass response to topramezone plus chelated iron in Virginia. J.R. Brewer*, S. Askew; Virginia Tech, Blacksburg, VA (269)

4:00 Discussion
**WEDNESDAY AFTERNOON  JANUARY 25**

**Break**
LOCATION: Prefunction Area  
TIME: 2:30 PM - 3:00 PM

**SWSS Mixer**
LOCATION: Prefunction Area  
TIME: 5:00 PM - 6:00 PM

**Awards Banquet**
LOCATION: Wynfrey CDE  
TIME: 6:00 PM - 8:00 PM

**THURSDAY MORNING  JANUARY 26**

**SWSS Executive Board Breakfast and Board Meeting**
LOCATION: Wyndsor I  
TIME: 7:00 AM - 10:00 AM
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Bayer CropScience
Bellspray, Inc
Diligence Technologies
Dow AgroSciences
Dupont Crop Protection
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FMC
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K-I Chemical U.S.A. Inc.
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PBI/Gordon Corp
Practical Weed Consultants, LLC
SSI Maxim Company Inc
Syngenta Crop Protection
The Scotts Company
United Phosphorus, Inc.
Valent USA Corp
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