Vol. 36, No. 1
May 2014

SOUTHERN WEED SCIENCE SOCIETY

News from the SWSS

President's Message

Scott Senseman

By now, folks have hopefully gotten the bone chill out of their system from our Birmingham meeting. Although the weather didn't exactly cooperate with us, the meeting was a true success. The Hyatt Regency Wynfrey Hotel staff was magnificent in helping us get through a difficult situation. All of you attending did your part as well by keeping a great attitude and adjusting. Thanks very much for your support. It is one of the reasons that I feel very proud to serve as your president this coming year and I very much look forward to working with all of you in 2014.

I have multiple people to thank for helping me through the program chores this year. Getting an opportunity to provide this year's program was a great one, but I had a great deal of help. When we went through the process of hiring our business manager a few years ago, I was certain that we hired a great person but I got to witness Phil Banks talents up close and personal this year and he was a huge help. Steve Kelly set a lofty bar as our President last year and also was a great resource. Our program chairs were fantastic and helped put together one of our best programs including a student contest program that was so full that we felt the need to start at 7:30 am to get them scheduled. It was a great problem to have and I hope that our new program chair, Brad Minton has a similar issue. Tom Mueller was also very helpful during the production of the program. Since he recently went through the process, I had the opportunity to bother him multiple times to ask silly questions. Our local arrangements co-chairs in Birmingham, Scott McElroy and Joyce Tredaway Ducar did a fantastic job in getting the meeting going and adjusting to the weather. A big thanks goes to Darrin Dodds for being willing to serve as Master of Ceremonies for the Awards Banquet and doing a great job. Thanks very much for making the meeting a great success Phil, Steve, Brad, Program Chairs (you know who you are), Tom, Darrin, Scott and Joyce!

Our local arrangements chair for our 2015 meeting in Savannah, GA will be Larry Newsome. Larry will be helping us put together a great meeting at the Hyatt Regency Hotel for January 26 - 28, 2015. Savannah is a

What's Inside

Future Meeting Site:
Hyatt Regency
Savannah, GA
January 26-28, 2015

www.swss. ws

town that dates back to 1733 making it the state of Georgia's first city. Among the multiple accolades bestowed on the city, USA Weekend Magazine declared Savannah on the "top 10 Most Beautiful Places in America" list while the New York Times named the city one of the "World's Top Ten Trendy Travel Hot Spots". Savannah should be a great venue for the SWSS Annual Meeting so please make plans to attend. I am certain that Dr. Newsome will need some help from those of you in the vicinity so please do what you can to lend Larry some support.

Brad Minton is the program chair for the 2015 meeting. I know that Dr. Minton will be looking for help on the Program Committee this year and we look forward to a great program. As Steve Kelly began, we have continued with the website procedure for entering presentations and creating the program. David Krueger has been great to work with so if any of you have had issues with getting your titles, abstracts or presentations loaded into the system, please let us know. Please be mindful of how you enter your titles so that we can ensure accuracy in both the titles and authorship. If you have any ideas for symposia or suggestions for the program, I am certain that Brad would welcome those thoughts.

A call for awards will be forthcoming. There are many of our members who are deserving of recognition from our society. We all know how much effort that is taken by all that put forth nominations, but it is worth every effort. The SWSS Awards committee has made every effort to make the process as efficient as possible. These recognitions elevate all of us both in our professional societies as well as with our agencies, institutions, and companies. Please be thinking of individuals who might be deserving of one of our awards and be ready to nominate them when the time comes.

For the 2016 SWSS Meeting, all systems are 'go' for a joint meeting with WSSA in Puerto Rico. This is another great venue that we hope will be attractive to those of you interested in combining one trip for two meetings. Thanks to Phil Banks and Darrin Dodds for helping make this happen. We all look forward to the blue water around San Juan.

This has been a tumultuous time for me personally and professionally as I have changed careers and lost my father. I cannot thank you enough for the support and kind words that so many of you in the society have provided me during this time. Serving as President is a true honor and privilege and I very much look forward to the coming months working with all of you in the society. Please let me know if you have ideas or suggestions for helping make this society better. Have a great and productive spring!

Sincerely,

Scott Senseman
President, SWSS

2014 List of Committees and Officers

100. SOUTHERN WEED SCIENCE SOCIETY OFFICERS AND EXECUTIVE BOARD

100a. OFFICERS

President - Scott Senseman - 2015
President Elect - Brad Minton - 2016
Vice-President - Peter Dotray - 2017
Secretary-Treasurer - Daniel Stephenson - 2017
Editor - Nilda Burgos - 2017
Immediate Past President - Steve Kelly - 2015

100b. ADDITIONAL EXECUTIVE BOARD MEMBERS

Member-at-Large - Academia - Scott McElroy 2016
Member-at-Large - Academia - Jason Bond - 2015
Member-at-Large - Industry - Vernon Langston - 2016
Member-at-Large- Industry - John Richburg - 2015
Representative to WSSA - Eric Palmer - 2017

100c. EX-OFFICIO BOARD MEMBERS

Constitution and Operating Procedures – Carroll Johnson 2016
Business Manager - Phil Banks
Student Representative - Blake Edwards
Web Master – David Kruger
Newsletter Editor - Bob Scott

101. SWSS ENDOWMENT FOUNDATION

101a. BOARD OF TRUSTEES - ELECTED

Nilda Burgos -President	2015
Renee Keese - Secretary	2016
James Holloway	2017
Brent Sellers	2018
Darrin Dodds	2019

101b. BOARD OF TRUSTEES - EX- OFFICIO

Daniel Stephenson (SWSS Secretary-Treasurer)
Brad Minton (SWSS Finance Committee Chair, VP)
Phil Banks (SWSS Business Manager)
Wiley C. Johnson (SWSS Constitution & Operating Proc. Committee Chair) (SWSS Student Representative)

*Chair
**Vice Chair

102. AWARDS COMMITTEE PARENT (STANDING) - *The Parent Awards Committee shall consist of the immediate Past President as Chairperson and each Chair of the Award Subcommittees.*

Steve Kelly**	2015	Steve Enloe	2015
Eric Prostko	2015	Randall Ratliff	2015
Vernon Langston	2015	Greg Stapleton	2015

The Awards Subcommittees shall consist of six members including the Chair, serving staggered three-year terms with two rotating off each year.

102a. SWSS Fellow Award Subcommittee (Formerly Distinguished Service Award Subcommittee)

E. Prostko*	2015	Brent Sellers	2016	Dan Reynolds	2017
F. Carey	2015	Bob Scott	2016	Robert Nichols	2017
Randall Ratliff	2015	Tom Mueller	2016	John Byrd	2017

102b. Outstanding Young Weed Scientist Award Subcommittee

G. Stapelton*	2015	David Gealy	2016	Eric Palmer	2017
David Shaw	2015	Nilda Burgos	2016	Shawn Askew	2017

102c. SWSS Fellow Award Subcommittee (ad hoc)

Randall Ratliff*	2015	David Jordan	2016	John Byrd	2017
Barry Brecke	2015	Wayne Keeling	2016	Bob Hayes	2017
Tom Mueller	2015	Steve Kelly	2015		

102d. Outstanding Educator Award Subcommittee

Stephen Enloe*	2015	S. Culpepper	2016	Greg Armel	2017
Shea Murdock	2015	Peter Dittmar	2016	James Griffin	2017

102e. Outstanding Graduate Student Award Subcommittee

Vernon Langston*	2015	Neil Rhodes	2016	Vinod Shivrain	2017
Mike Barrett	2015	Stephen Enloe	2016	Neha Rana	2017

103. COMPUTER APPLICATION COMMITTEE (STANDING)

Shawn Askew*	2015	Michael Cox	2015	Angela Post	2015

104. CONSTITUTION AND OPERATING PROCEDURES COMMITTEE (STANDING)

Wiley C. Johnson* 2016

*Chair
**Vice Chair

105. FINANCE COMMITTEE (STANDING) - *Shall consist of the Vice President as Chair and President-Elect, Secretary-Treasurer, Chair of Sustaining Membership Committee, and others as the President so chooses, with the Editor serving as ex-officio member.*

Peter Dotray*	2016	Nilda Burgos (ex-officio)
Brad Minton	2015	
Bruce Kirksey	2015	
Daniel Stephenson	2017	

106. GRADUATE STUDENT ORGANIZATION

President	Blake Edwards (Mississippi State)
Vice President	Garret Montgomery (Mississippi State)
Secretary	Sandeep Rana (Virginia Tech)
Weed Resistance and Technology Stewardship rep	Matthew Wiggins (Tennessee)
Student Program Committee Rep	Andy Brown (Mississippi State)
Endowment Committee rep	Ryan Miller (Arkansas)

107. WEED RESISTANCE AND TECHNOLOGY STEWARDSHIP (ad hoc)

Jason Bond*	Hubert Menne
Peter Dotray	Jason Norsworthy
Eric Palmer	Tom Eubank
Jim Griffin	Andrew Price
Griff Griffith	Eric Prostko
Andy Kendig	Larry Steckel
Ramon Leon	Daniel Stephenson
Hunter Perry	

108. HISTORICAL COMMITTEE (STANDING) Bill Witt* 2016
John Byrd 2017

109. LEGISLATIVE AND REGULATORY COMMITTEE (STANDING) Bob Nichols* 2016 Lee Van Wychen 2014

110. LOCAL ARRANGEMENTS COMMITTEE - 2014 MEETING (STANDING)
Larry Newsom 2015

111. LONG-RANGE PLANNING COMMITTEE (STANDING) - *Shall consist of the previous five presidents with the most recent past-president serving as Chair.*
Steve Kelly 2019 Tom Mueller* 2018 Barry Brecke 2017 Tom Holt 2016
Dan Reynolds 2015

*Chair
**Vice Chair

112. MEETING SITE SELECTION COMMITTEE (STANDING) - *Shall consist of six members and the SWSS Business Manager. The members will be appointed by*

the President on a rotating basis with one member appointed each year and members shall serve six-year terms. The Chairmanship will rotate to the senior committee member from the geographical area where the meeting will be held.

G. Schwarzlose	2019	T. Grey	2015		
J. Norsworthy	2016	M. Edwards	2017	G. Oliver	2018
E. Webster	2020	P. Banks - Business Mgr. (Ex-officio)			

113. NOMINATING COMMITTEE (STANDING) - *Shall be composed of the Past President as Chair.*
Steve Kelly* - 2015

114. PROGRAM COMMITTEE - 2015 MEETING (STANDING)
Brad Minton - 2015

115. PROGRAM COMMITTEE - 2016 MEETING (STANDING)
Peter Dotray – 2016

116. RESEARCH COMMITTEE (STANDING)
Peter Dotray* - 2015

Alabama – Joyce Tredaway Ducar	North Carolina – Wes Everman
Arkansas – Bob Scott	Oklahoma – Todd Baughmann
Florida – Ramon Leon	South Carolina – Mike
Marshall Georgia – Eric Prostko	Tennessee – Larry Steckel
Louisiana – Donnie Miller	Texas – Peter Dotray
Mississippi – John Byrd	Virginia – Shawn Askew
Missouri – Kevin Bradley	

117. RESOLUTIONS AND NECROLOGY COMMITTEE (STANDING)

David Black*	2016	Peter Dittmar	2016	Larry Walton	2016

118. SOUTHERN WEED CONTEST COMMITTEE (STANDING)

S. Askew	J. Griffin	
N. Burgos	G. MacDonald	W. Vencill
P. Dotray	S. McElroy	E. Webster
T. Eubank*	T. Mueller	
W. Everman**	D. Reynolds	open to all SWSS members

119. STUDENT PROGRAM COMMITTEE (STANDING)
Drew Ellis* - 2015 Matt Goddard** - 2016 Hunter Perry - 2017

120. WEED IDENTIFICATION COMMITTEE (STANDING)
Angela Post 2014 Katelyn Venner 2014

121. SUSTAINING MEMBERSHIP COMMITTEE (STANDING)

Cheryl Dunne	2015	Bruce Kirksey*	2015	Daniel Stephenson	2015
Hunter Perry	2015	Trey Koger	2016		

122. CONTINUING EDUCATION UNITS COMMITTEE (SPECIAL)

Tim Adcock	2016	Matt Matocha	2016
Shawn Askew	2016	Pat McCullough	2016
Todd Baughmann	2016	Scott McElroy	2016
John Byrd	2016	Ken Muzyk	2016
Alan Estes	2016	Bob Scott	2016
Travis Gannon	2016	Ron Strahan	2016
Mike Harrell	2016	Bobby Walls*	2016

123. MEMBERSHIP COMMITTEE (SPECIAL)

Chad Brommer* 2014 Cecil Yancy 2015

Graduate Student Contest Winners

MS Poster Section 1

1st Eric Reasor, Univ. of TN — 2nd Shane Breeden, Univ. of TN

MS Poster Section 2

1st Tyler Dixon Miss. State — 2nd D.J. Mahoney, NC State

PhD Poster Section 1

1st Sushila Chaudhari, NC State — 2nd Gary Cundiff, Miss. State

MS Paper Contest Section 1

1st Ethan Parker, Auburn Univ. — 2nd B.W. Schrage, Univ. of Ark

MS Paper Contest Section 2

1st Jose Fernandez, Univ. of FL — 2nd Jose Vargas, NC State

MS Paper Contest Section 3

1st Alanna Blaine, Miss. State — 2nd Garret Montgomery, Miss. State

PhD Paper Contest Section 1

1st Matthew Wiggins, Univ. of TN — 2nd Michael Cox, VA Tech

PhD Paper Contest Section 2

1st Trevor Israel, Univ. of TN — 2nd Xiao (Steve) Li, Univ. of GA

The 2014 SWSS meeting program was significantly impacted from graduate students across the Southern region. This year's graduate student competition consisted of 27 posters and 43 contest papers (10 title increase from 2013). Contest entries were arranged into 2 Master's poster sections, 1 Ph.D. poster section, 3 Master's paper sections, and 2 Ph.D. paper sections. Prizes were awarded for 1st and 2nd place of each section for a total of 16 contest awards. To solidify the success of the contest, a total of 40 volunteer judges were required to insure all titles were judged fairly and to provide professional feedback to contest participants. The SWSS Student Program Committee would like to thank all judges and alternates for their willingness to participate.

2014 SWSS Award Winners

Outstanding Young Weed Scientist-Academia

Jason Ferrell

Jason Ferrell is an Associate Professor in the Agronomy Department at the University of Florida. Dr. Ferrell's program consists of developing weed management programs for agronomic crops, pastures and industrial sites. Since joining the university in 2004 with a 65% extension and 35% research appointment, Dr. Ferrell has conducted over 400 extension meetings, written over 200 articles for extension newsletters and trade magazines, published 60 refereed scientific articles, and mentored 15 graduate students. He currently serves as associate editor for *Weed Technology Journal* (2009-present) and Editor for *Journal of Aquatic Plant Management* (2013-present). Dr. Ferrell has also been honored with the Dallas Townsend Extension Enhancement Award, Outstanding Specialist Award, Researcher of the Year by the Florida Cattleman's Association, and Outstanding Weed Scientist by the Florida Weed Science Society. He and his wife Amber have 3 children - Abby, Emma and Nathan.

Outstanding Young Weed Scientist- Industry

Vinod Shivrain

Vinod Shivrain was born and raised in a farming family in Haryana, India. He obtained his B.Sc. (Hons.) in Agriculture from C.C.S. Haryana Agricultural University. Vinod completed his M.S. and Ph.D. from the University of Arkansas under the guidance of Dr. Nilda Burgos. His graduate research was focused on understanding the biology, physiology, and genetic diversity of red rice, a problematic weed globally in rice production systems. Vinod has authored/co-authored 18 refereed articles and 70 abstracts and presentations. He serves as reviewer for various journals including Weed Science, Weed Research, and Weed Technology. Vinod has been working for Syngenta since 2009 starting as a scientist in the Biological Analytics group in Greensboro, NC. He then moved to a research scientist role at the Vero Beach Research Center in Florida in 2011. Vinod's current focus is on the research for herbicide-resistant weed management. He is also involved in design and coordination of research and development programs for herbicides and HTC trait development.

Outstanding Educator Award
Scott Senseman

Scott Senseman graduated from Wilmington College of Ohio in 1986 with a B.S. in Agricultural Business. He attended the University of Arkansas where he completed his M.S. in Agronomy-Weed Science in 1990 and his Ph.D. in Agronomy-Pesticide Residue in 1994. He served on that faculty in the Department of Soil and Crop Sciences at Texas A&M University for more than 18 years starting in October 1994. He is currently Professor and Head of the Department of Plant Sciences at the University of Tennessee where he has been employed since July, 2013. Dr. Senseman's research program has concentrated on several aspects of herbicide chemistry including the effectiveness of grass buffer strips on removal of herbicides from runoff water, herbicide dissipation and carryover, herbicide absorption and translocation, herbicide effects on soil microbial activity, extraction method development for soil and water, and weed management in rice. He has authored or coauthored 96 peer-reviewed journal articles, 224 abstracts of poster and oral presentations, 8 technical reports, two magazine articles, and one encyclopedia entry. In 2007, he finished his service as the editor for the Weed Science Society of America's Ninth Edition of the Herbicide Handbook. Dr. Senseman helped develop and teach the beginning course in agronomy (SCSC 101 Introduction to Agronomy), two undergraduate courses related to the evolution, role, and fate of agricultural chemicals in row crop production (SCSC 435 Ecology of Agrochemicals and SCSC 446 Weed Management and Ecology), a graduate and distance course related to herbicide mode of action and environmental fate (SCSC 650 Mode of Action and Environmental Fate of Herbicides) as well as an analytical course related to instrumentation used in environmental aspects of agronomy (SCSC 618 Methods of Plant, Soil, and Water Analysis in Environmental Systems). Dr. Senseman has served as major advisor or co-advisor for 22 graduate students and has served on 59 other graduate student committees and two international undergraduate internships during his tenure at Texas A&M.

2014 Outstanding Graduate Student Award
Brent Johnson

Brent Johnson was raised in West Helena, AR, and he obtained a B.S. degree in Crop Management from the University of Arkansas in 2008. While pursuing his B.S. degree, he worked for Dr. Jason Norsworthy as an undergraduate assistant, with the main responsibility of conducting greenhouse screens of potential herbicide-resistant weeds. Upon completion of his B.S. degree, Brent elected to pursue his M.S. degree in Weed Science under the guidance of Dr. Norsworthy. While pursuing his M.S. degree, Brent also worked as a Research Program Associate for Dr. Norsworthy. Brent's thesis research consisted of confirming

glyphosate-resistant johnsongrass in Arkansas, assessing its geographical distribution, developing management programs for its control in soybean, and assessing the effectiveness of late-season herbicide applications in preventing johnsongrass seed production. Brent has authored or co-authored four refereed journal articles, nine non-refereed articles, and 128 abstracts. Brent was a member of the University of Arkansas Weed Team in 2009, 2010, and 2011, and he was 3rd place overall individual and high individual in herbicide symptomology in 2009, 1st place overall individual and high individual in written calibration in 2010, and 8th place overall individual in 2011. In addition, he has won oral presentation competitions at the University of Arkansas Gamma Sigma Delta competition, Southern Weed Science Society, Arkansas Crop Protection Association, and Beltwide Cotton Conference. Brent completed his M.S. degree in August of 2013 and currently works for DuPont Crop Protection as a Field Development Representative in Florida.

Outstanding Graduate Student Award (PhD)

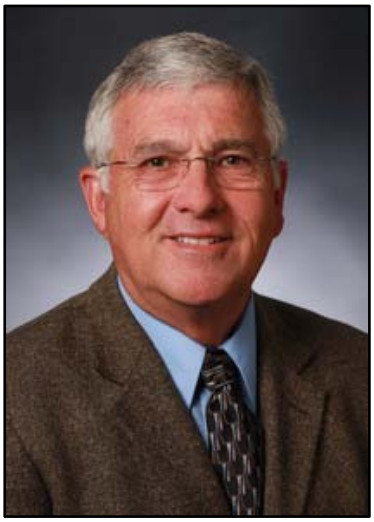
James McCurdy

James D. McCurdy (Jay for short) was raised on a farm in Dyer, Tennessee by loving parents, Bob and Suzanne. Jay received his Bachelors degree in Plant and Soil Sciences from the University of Tennessee, Martin, in 2006. He went on to attain a Masters degree in Plant Sciences at the University of Tennessee, Knoxville, in 2008, where his thesis evaluated herbicide efficacy and physiology of mesotrione in turfgrass systems. After completing his Masters degree, Jay worked as a family farm employee and then as a turfgrass research superintendent in Hong Kong, China. Jay's work in China focused upon cultivar selection and best management practices for the Hong Kong Golf Club redesign.

Jay's pursuit of a PhD at Auburn University began in late 2009 under the direction of Dr. Scott McElroy. His dissertation evaluated legume inclusion within low maintenance turfgrass scenarios as a means of supplying supplemental nitrogen and improving pollinator habitat. Jay has also been active in herbicide efficacy evaluations, rate response screening for herbicide resistance, and genomic characterization of resistance mechanisms. Jay's recognition for outstanding achievement includes: the A.L. Smith Agronomy & Soils Departmental Award and the Watson Fellowship presented by the Environmental Institute for Golf. During his career as a graduate student and private researcher, Jay has authored and co-authored more than ten peer reviewed publications. He has written more than twenty abstracts presented in three different languages. He has presented results at more than a dozen professional meetings and has actively engaged commodity and stakeholder groups at numerous extension events.

Jay and his wife Vicky reside in Starkville, Mississippi, where he continues his career as an Assistant Professor and Turfgrass Extension Specialist in the Department of Plant and Soil Sciences.

2014 Distinguished Service Award from Industry
Tom Holt



Tom Holt currently serves as Manager of Field Biology R&D for BASF Agricultural Products in Research Triangle Park, N.C. Tom obtained his Bachelor's Degree with a major in zoology and Master's Degree with a major in entomology at Texas Tech. His professional career began in 1974, serving as an R&D field biologist for Sandoz Crop Protection in the Pacific Northwest from 1974–78, in the Midwest from 1978–81 and in the Southeast from 1981–83. In 1983, Tom became a field R&D manager with various regional changes over an 11-year period. From 1986–94, he served as the Southern Regional Manager working out of Collierville, Tenn. He moved, as a delegate, to Basel, Switzerland, in 1994 and served as Director of Field biology for Europe, Eastern Europe and Africa. In 1996, he became the Global Director of the Sandoz biological business. Holt joined BASF in 1997 with the merger of Sandoz and Ciba. He has served as Director of Field Biology R&D for BASF from 2006-2013. Tom has served in several leadership roles in SWSS including President in 2010-2011.

Tom is a certified Franklin-Covey facilitator of "7-Habits of Highly Effective People" and "The Speed of Trust" and was named Distinguished Alumni from Texas Tech University and holds an Honorary American FFA Degree. He and his wife, Mary, are the proud parents of two sons, one daughter and nine grandchildren. His hobbies are fine furniture building and golf. He and his family attend and are active members of Colonial Baptist Church in Cary, NC. Tom plans to retire September 2 of this year after 40 years in the industry.

2014 Distinguished Service Award from Academia
Dan Reynolds

Dr. Daniel B. Reynolds is a Professor of Weed Science and holds the G.B. Triplett Endowed Chair in Agronomy with Mississippi State University. He is a native of Jerome, Arkansas, and received a B.S. degree in Agricultural Science from the University of Arkansas at Monticello and his M.S. degree in Agronomy from the University of Arkansas at Fayetteville. He received a Ph.D. in Crop Science from Oklahoma State University and joined the staff of the Louisiana Agricultural Experiment Station at the Northeast Research Station in 1986. Dan conducted weed control research in soybean, corn, cotton, and cereal grains in northeast Louisiana. In 1996, he joined the Department of Plant & Soil Sciences with Mississippi State University. Currently his responsibilities include teaching, weed control research in corn, cotton, and soybean along with conservation tillage systems. His research program is now focusing on the use of spatial technologies to assess the needs and application of herbicides, plant growth regulators, and harvest-aids site-specifically. The introduction of transgenic crops has led to increased incidents

of off-target deposition of herbicides such as glyphosate. Dan has worked with computer and electrical engineers to develop methods for detection and assessment of these events by utilizing multi-spectral and hyper-spectral data. Dan has served or currently serves as major advisor of 33 graduate students and has served on the committee of over 30 others. With the assistance of colleagues, Dan has developed effective weed control programs for the crops grown in Louisiana and Mississippi. He has been an invited speaker at many weed control program training seminars for extension, agri-chemical companies, and farm personnel.

Dan has been actively involved in weed science societies at the state, regional, and national levels. He has served as the President of the Southern Weed Science Society (SWSS) as well as on various committees of the Weed Science Society of America. In 1999 he received the SWSS Outstanding Young Weed Scientist Award, in 2003 he was the recipient of the SWSS Outstanding Educator Award, and in 2012 he was selected as the SWSS Weed Scientist of the Year. Additionally, Dan was selected by the Mississippi Agricultural Forestry Experiment Station as their 2012 Researcher of the Year.

NEW DEVELOPMENTS!

At this year's past SWSS meeting BASF announced the development of new non-GMO herbicide tolerant rice. The Provisia™ Rice System is being developed with a rice trait to tolerate quizalofop-p-ethyl (Provisia™ herbicide) and provide effective control of red rice and other grass weeds. The major benefit of the Provisia™ Rice System is that it will provide another effective means of red rice control that can be used in rotation with the Clearfield Rice System. Development efforts are focused on optimizing Provisia weed control programs and ensuring resistance management stewardship. This system was placed into University trials this spring and is expected to go to market sometime later this decade.

Benzobicyclon is a new HPPD (Group 27) inhibiting herbicide being developed by Gowan Company for use in rice in the Mid-South. It represents the first HPPD herbicide to be labeled in rice production and a new mode of actions for the crop. Gowan Field Development Rep. Dr. Craig Sandoski says "We are excited about the opportunity to provide rice growers with a new mode of action that is effective against broadleaf, aquatic, sedge and grass weeds. Registration of this product in Mid-south rice is expected soon.

If you or your company has a "New Development" that you would like to share with the members of SWSS, please submit it for the next newsletter.

SWSS Endowment Enrichment Scholarship

For the second year, the SWSS Endowment Foundation has provided a $1500 scholarship to three students for summer enrichment experience. The information below provides information about the Scholarship. For students, please consider making an application to the program next year. If you would like to help support the SWSS Endowment Foundation with this program or the other student awards given out at the annual meeting, please make a donation to the Foundation today. You can do so online at: https://www.swss.ws/endowment-donation/

Purpose: Provide an opportunity for SWSS graduate and undergraduate students to participate in a week long educational experience with Industry or Academia.

Description of Scholarship: Scholarship winners will have a week-long educational experience of their choosing as described in Tables 1 and 2 below. Opportunities include learning among many areas of weed science including experiences from the field to the lab, in research or extension, and with industry or academia. Winners will be provided $1500 from the SWSS Endowment to pay for expenses incurred during their experience.

Eligibility Requirements: Applicants must meet the following criteria:

1. The applicant must be an undergraduate or graduate student in good academic standing enrolled in a degree program (B.S., M.S., or Ph.D.) at an accredited college/university in the southern region.
2. Graduate students must be actively conducting, or have recently finished, research in the area of weed science. Undergraduates must document their interest and intent to pursue higher degrees in the area of weed science.
3. The applicant must be a member of the SWSS at the time of application.
4. **The applicant will be required to present a 10-minute paper and submit an abstract about their experience at the SWSS annual meeting following their experience**. Specifics will be provided directly to winners.

Application Procedure:

1. Complete application form.
2. Cover letter describing applicants interest in weed science and the scholarship (< 1 page).
3. Brief resume or CV summary highlighting recent relevant experiences (< 1 page).
4. Two letters of support, one of which must be from the student's graduate or major advisor.
5. Academic transcripts (unofficial copy is acceptable).

Selection Criteria and Process: Applicants will be evaluated based on contribution of research to the discipline of weed science and to the SWSS objectives, academic record and scholarly achievements, and potential contributions to the future of weed science. Submitted applications will be distributed to the Endowment Committee members where each member will rank the applications. No committee member with a person or advisory affiliation with an applicant will judge said applicant.

Revising Guidelines or Procedures: The Endowment Committee anticipates making revisions to the scholarship guidelines and operating procedures as more experience is obtained. The Endowment welcomes suggestions from the membership on methods to improve this experience for our students.

Call for Program Proposals for the 8th International IPM Symposium

Announcing the 8th International IPM Symposium that will be held in Salt Lake City, Utah in March 2015. The information below includes a link to the symposium website that contains additional information about the symposium. Please consider proposing a session for this symposium which represents an excellent opportunity for weed scientists to discuss progress in integrated management research, education, and extension programs with the broader pest management community.

"IPM—Solutions for a Changing World" is the theme of the **8th International IPM Symposium** to be held **March 23–26, 2015** in Salt Lake City Utah USA at the Salt Palace Convention Center. You are invited to submit a proposal for a session describing your program, activity, or research that addresses effective and efficient pest management. The symposium sessions will be divided into tracks based on commodity or setting and will address various aspects of Integrated Pest Management (IPM) across disciplines and around the world.

http://ipmcenters.org/ipmsymposium15

Sessions will be organized by these tracks, although others will be considered.

- Fruit & Nut Crops
- Rangeland/Livestock/Pastures/Turf and Sod/Natural Landscapes/Forestry
- Row/Agronomic Crops/Field Crops
- Specialty Crops: Nursery, Greenhouse, Hydroponic, Ornamental
- Urban/Structural/Landscape/School/Public Health
- Vegetable Crops

Priority will be given to submissions that address these aspects of IPM within the six tracks, although others will be considered.

- Breakthroughs in new pesticides, biocontrol agents and biopesticides
- Decision-making technology
- Funding and policy issues
- IPM from a global perspective
- IPM challenges and successes
- IPM partnerships
- Leading through education and outreach
- New tools for the IPM toolbox
- Organic and sustainable pest management
- Invasive and new problem species (plants, insects, diseases, etc.)
- Regulatory updates
- Techniques to increase IPM adoption

Sessions will be organized in 1-hour time blocks. Organizers may submit sessions that take more than 1 hour, but must accommodate a 15-minute break after each 1 hour segment.

We are planning two types of session formats for the program.

- Mini-symposia should have a broad interest with estimated audiences of 75-100 people.
- Roundtable discussions/workshops will likely be topic specific, maybe involving hands-on activities, attracting 20-30 attendees.

Session abstracts should be limited to 250 words.

Session proposals must be submitted online by **May 27, 2014** for full consideration. Here is the online form: www.regonline.com/IPMproposals

The number of each type of session will be limited due to space and time constraints. The program planning committee will review all proposals and try to accommodate as many as possible.

As at past symposia, limited "Program Enhancement" funds for speaker support are anticipated. Preference will be given to speakers who would not normally attend the event. Details about requests for these funds will be made available after the proposals have been submitted.

This is a call for oral presentations; a call for poster submissions will be announced later this year.

Contact Elaine Wolff, wolff1@illinois.edu, to learn more about attending, exhibiting at or contributing to the Symposium.
http://ipmcenters.org/ipmsymposium15

People and Places

The SWSS is proud to announce that **Dr. Al Rankins**, formerly of Mississippi State University and a graduate of Dr. Shaw's weed science program has been named President of Alcorn University!

The Mississippi Board of Trustees of State Institutions of Higher Learning (IHL) unanimously named Dr. Alfred Rankins Jr. the 19th President of Alcorn State University on March 4, 2014.

He most recently served as the deputy commissioner for academic and student affairs for IHL and has extensive higher education experience. In this role, he served as the system's chief academic and student affairs officer, advising the Board of Trustees and the Commissioner of Higher Education on all matters pertaining to academic programs, policy and planning; student access, readiness and success; and faculty affairs.

Dr. Rankins also provided leadership and direction to the chief academic officers and chief student affairs officers at the universities. He had administrative oversight for the Academic Affairs, America Reads Mississippi, College Knowledge, Gear Up Mississippi, Nursing Education, P-20 Initiatives, Strategic Data Management, and Student Affairs units.

He served as acting president for Mississippi Valley State University for one year, beginning in November 2012.

Prior to joining IHL in 2008, Dr. Rankins served as a tenure-track assistant professor, tenured associate professor, extension specialist and assistant vice president intern for academic affairs at Mississippi State. He taught undergraduate and graduate level courses in the Department of Plant and Soil Science.

BASF welcomes **John Schultz** as the new Technical Service Rep for Arkansas. John just completed his M.S. degree in Weed Science from the University of Missouri. He will reside in North Little Rock and is excited about the opportunity of working with each of you. John's contact information is: John Schultz, BASF Tech Service Rep - Arkansas E-Mail: john.schultz@basf.com

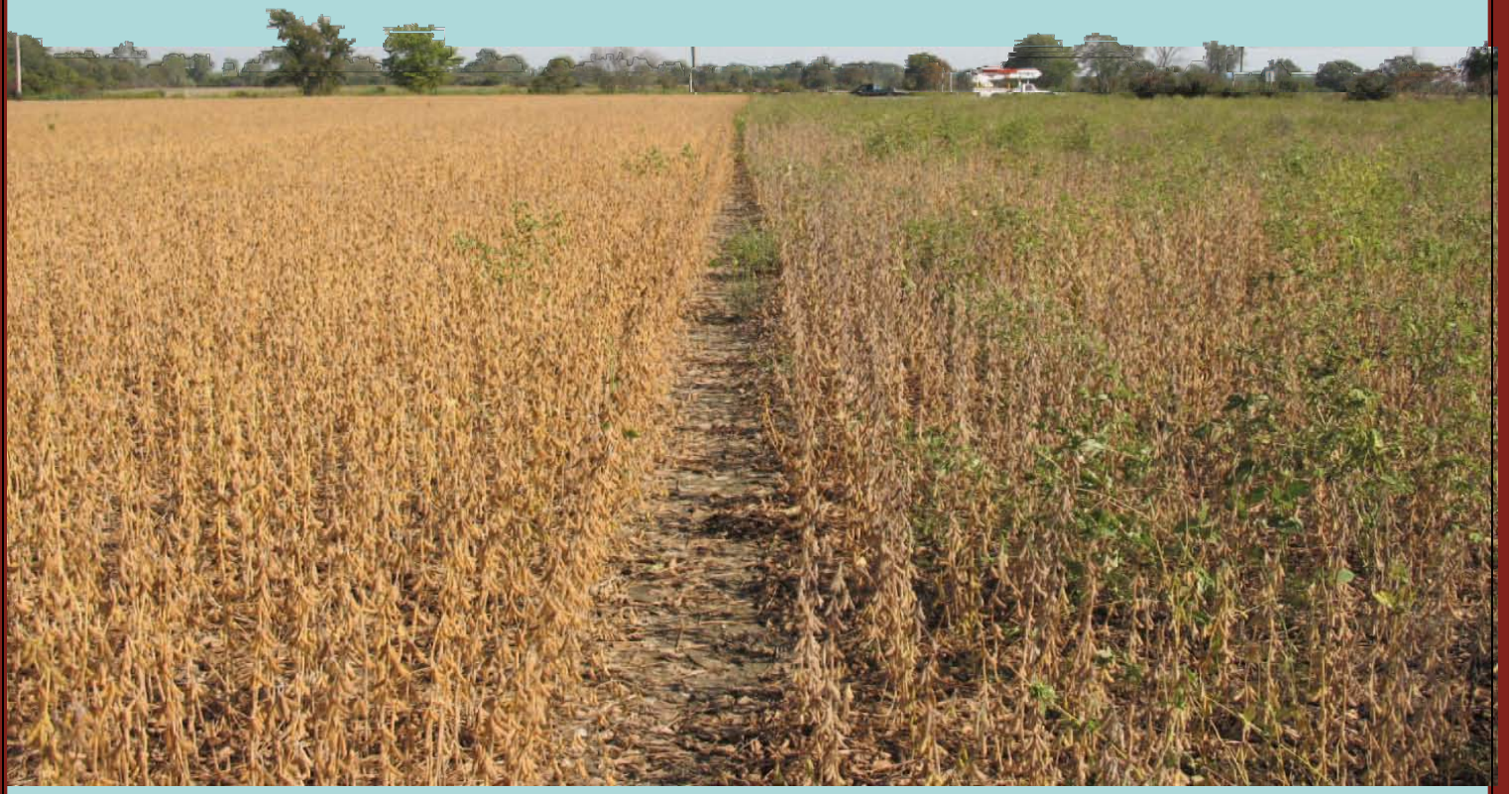
Save the Date

Herbicide Resistance Summit II

Sponsored by the Weed Science Society of America

Hosted by the National Research Council

Keck Center, Washington DC • September 10, 2014



Building on the insights and perspectives that were established from the 2012 Herbicide Resistance Summit, one of the outcomes expected from Herbicide Resistance Summit II will include a more unified understanding of the issues across the country, understanding of differences of viewpoints, and approaches to solutions.

Everyone participating in the Herbicide Resistance Summit II should walk away understanding their role in ad- dressing and solving the evolution of herbicide resistance in weeds. The Herbicide Resistance Summit II will end with the question "What will you do?"

More information will be provided soon, but please mark your calendars now for this important event. www.wssa.net

SWSS WEED CONTEST
Memphis Agricenter, 7777 Walnut Grove Rd., Memphis, TN, 38120
Primary contact: Bruce Kirksey bkirksey@agricenter.org
August 5-6, 2014

RULES, REGULATIONS, AND GUIDELINES

Purpose

The purpose of the Southern Weed Contest is to provide an educational experience from which undergraduate and graduate students in Southern Universities can broaden their applied skills in Weed Science. The contest provides an opportunity for Weed Science students be exposed to weed scientists from other universities and industry, apply what they have learned using a contest to measure their capabilities, as well as to socialize. It is hopeful that the contest will increase the visibility of Weed Science and intensify the interest level of those participating in the discipline of Weed Science.

Eligibility:

Any undergraduate or graduate student currently enrolled and pursuing a B.S., M.S., or Ph.D. degree is eligible to participate. Each graduate team will consist of three or four members, composed of (a) graduate, (b) undergraduate, or (c) a combination of graduate and undergraduate students. If undergraduates are part of a graduate team, those students are subject to the same guidelines as the graduate students. If a university does not have sufficient students for a team, up to two students may enter as individuals. Universities are allowed to enter multiple teams. All students will compete using the same contest material. A team may also bring three alternates. Alternate scores will only count toward individual awards. Team scores will be determined from averaging the individual scores from each team member; unless a three-person team is entered. Then the three highest individuals will be averaged. A maximum of two coaches per team can attend the contest. Students will be allowed to participate in the contest five times as a team member or alternate; however, the student can only participate as a team member three times. Undergraduate participation will not count against the five-time rule. **All teams must enter the contest by May 1, 2014.** Names of team members and alternates must be provided by July 1, 2014. Primary contact: Bruce Kirksey bkirksey@agricenter.org

Awards:

TEAM-The highest average team score from all events will determine the overall contest winner. A traveling **"Broken Hoe"** trophy will be presented to the overall winner and will rotate yearly. The first place team will receive a check for $500 and each member and coach will receive an engraved plaque. The second and third place teams will receive checks of $300 and $200, respectively. Each will also receive an engraved plaque as described above.

INDIVIDUAL-The highest combined score from all events, except team sprayer calibration, will determine the overall-winning individual. The top 10 individuals will be recognized and awarded a plaque. The winning individual will receive a check for $400. Individuals finishing second, third, fourth, and fifth will receive checks from $250, $100, $75, and $50, respectively. The high individual in Weed Identification, Crop Response to Herbicides, Sprayer Calibration Problem Set, and Crop/Weed Situation and Recommendations will be recognized and awarded a plaque. If at least four undergraduate students participate in the

contest, the top three individual scores will be recognized with first, second, and third place plaques and checks for $200, $100, and $50, respectively.

Events:
The contest will consist of four major events plus a mystery event. Inclement weather may delay the contest; however, it will continue as soon as conditions permit.

While contestants are briefed on contest details during breakfast, coaches will be taken to the contest site to review all aspects of the contest. Coaches will review the six phases of the contest: weed identification, herbicide identification, sprayer calibration, math problem set, field problem solving, and mystery event. The coaches will then be taken to a neutral site for breakfast. No contact, electronic or otherwise, with contestants will be allowed until all events have been completed. A committee meeting will also be conducted, if needed, either the day before the contest or on the day of the contest.

1. **Weed Identification** (100 points)
From the contest weed identification list of 100 weeds and weed seeds/tubers, the host will pick a total of 50 weeds and/or weed seeds to be identified. Plants will be grown in a field weed nursery or pots and may be in any stage of growth or development within reason. A complete weed identification list is provided with the correct spelling of each species (Table 1). Students will be responsible for the correct WSSA common and scientific name and spelling (Weed Science Composite List of Weeds - 2011). **Undergraduate students will only use the common names.** The fall preceding the contest the host should evaluate its weed seed supply and obtain
additional seeds/tubers if needed so that an excellent representation of the weed species can be selected for identification. **It is important to utilize as many plant species as possible.** The plants will be grown in sufficient numbers so that adequate samples are available so that 30 to 70 contestants can have specimens for identification. The contestants will be allowed ample time to identify each specimen. The percentage of samples will range from 50 to 80% weeds and from 50 to 20% seeds. Uncontaminated weed seed and plant samples are essential for effective identification. **So make sure samples are pure.** The contestant's score will be figured as follows: 2 points for each correctly identified species (1 point for common name and 1 point for scientific name with 0.5 points for Genus and 0.5 points for species) x 50 = 100 points. **If names are not spelled correctly or capitalized correctly, they are wrong. Likewise, answers must be in the correct column.** Teams will not be supplied weed seed for study, but rather rely on their own training resources. However, teams are encouraged to expand/improve their training
resources through contacts with other weed scientists. This approach may better reflect individual and team preparation for the contest.

2. **Calibration** (100 points)
This event consists of two sections: an individual written test worth 50 points and a team sprayer calibration event worth 50 points.

The individual written test will cover problems and factual information about sprayer and seed treatment calibration of all types; the written portion will be scored as an individual

and team event (50 points per person). The host should take particular care to insure all banded application and skip-row calibration problems are stated clearly. Individual team members and alternates will be given a maximum of 1 hour to complete the written exam. **The host will not provide calculators and students will be required to bring their own. Any make or model is acceptable, but programmable calculators are not allowed.** The three or four individual team member scores will be added and divided by the number of individuals on the team to give the number of points out of 50 for the team score.

In the team section, the host will provide a hands-on calibration activity that focuses on team, rather than individual performance. Students should have practical calibration knowledge for air blast sprayers, tractor sprayers, backpack sprayers, granular applicators, greenhouse spray chambers, etc. **Differences in time for the competition will count no more than 40% of the overall score. Accuracy of calibration is critical.**

To determine final team score for the calibration event, the number of points scored out of 50 obtained in the team event will be added to the average score of the three or four high team members from the individual calibration problems for a maximum possible of 100 points.

Reference material for the individual problems will be Chapter 23 of Applied Weed Science by Ross and Lembi (2009); Circular 1192 - Equipment and Calibration; Low-Pressure Sprayers, and Circular 1240 - Equipment and Calibration: Granular Applicators, both by Bode and Pearson (University of Illinois); Roth, L.O. and H.L. Fields, eds. 1991. Introduction to Agricultural Engineering: A Problem Solving Approach, Second Edition, New York: Chapman and Hall; Aerial Application Handbook for Applicators by Dennis K. Kuhlman, Kansas State University; Research Methods in Weed Science, 3rd ed. SWSS 1986; Physiology of Herbicide Action. M.D. Devine, S. O. Duke, and C. Fedtke, 1993; Herbicide Handbook. WSSA 9th ed. 2007, and various unit conversions.

3. **Crop Response to Herbicides** (100 points)
This is an area of extreme difficulty for the students. **Thus, the host must have available a sprinkler irrigation system so that residual herbicides may be activated and weeds and crops maintained in an active growth stage for postemergence treatments.** A list of possible crops and herbicides with rate and method of application are provided in Table 2. The test must contain at least 6 crops and 6 weeds and will be planted and treated with a wide range of preemergence and postemergence herbicides from the list. Each herbicide plot will contain a 1X rate of the unknown herbicide. It is suggested that the test be planted 4 to 5 weeks prior to the contest, with postemergence herbicides being applied 10 to 14 days prior to the contest. Each contestant will be required to identify the unknown herbicides by WSSA-approved chemical family and common name by observation of crop and weed responses. Both names will be given equal credit; in other words missing family or common name will be half right. Put the letter for the correct family listed above, and follow it with the correctly spelled common name. For the aryloxyphenoxy or cyclohexane family, the host may choose the specific product. There should be from 10 to 15 plots. Herbicide plots may be duplicated and check plots can be utilized. It would be of great benefit to the students if they could be led back through the plots following the event. **Students will not be allowed to pull any portion of the plants in the plots. If plants are pulled, the student will lose the points for that plot.**

4. **Crop/weed Situation and Recommendations** (100 points)
Contestants will be required within 15 minutes to determine and evaluate a crop/weed situation and recommend the most effective legal remedy to the problem. **Each contestant will have two field problems to solve.** Recommendations must comply with the label of each herbicide recommended. Students should give consideration to such factors as stage of growth, crop tolerance, climatological factors, agricultural spraying procedures, weed control, economics, and impact upon the environment. The host will determine the best answer considering all alternatives for a situation, although several possible answers may be correct. The latest Federal (Section 3) or State (Section 24C) labels of the product constitutes legal control. The event will be conducted as a "role-play" situation and the potential problem will be
in one of the crops on the problem-solving sheet. Also, the potential herbicide and weed problem will involve only the listed herbicides and weeds on the predetermined problem-solving sheet. The contestant will be asked to assume the
role of a chemical company representative, state extension specialist, or independent crop consultant when dealing with the farmer and scored as follows:

5 points - proper approach to farmer
20 points - understanding and solving problem
12.5 points - recommendations for this year's crop
12.5 points - recommendations for next year's crop

Each team will be divided at random into two groups in order to handle one of two different problem situations. Following completion of the first problem, the groups will switch problems and repeat the procedure. **Each participant will evaluate the same two problems.** Alternates and other individuals will be equally divided between the two groups. The assigned judge and farmer will independently score each participant from a predetermined scoring sheet with assigned points for each statement, compare scores, and adjust if necessary. **Prior to the contest, judges and farmers will be tested to insure that the scorers will give equivalent scores within each individual field problem**. Each field problem will be worth 50 points and to obtain the participants score, the two scores will be added for a maximum of 100 points.

5. **Mystery Event** (15 to 20 points)

This team or individual event will be an agronomic related problem and the contestants will not be advised of the area to study prior to the contest. The mystery event will count toward the team score and individual scores.

Scoring

Overall team ranking of each respective school should be provided to the team coach the night of the banquet following the event. Individual score sheets including their respective ranking against all other competitors should be distributed back to the contestants or their coach at the end of the banquet. An answer key should also be distributed to the team coach.

Scores should be tabulated using a scoring format as listed in the examples below. Each phase of the contest will be scored equally (100 pts. each) except for the mystery event (15 or 20 pts) for a total of 415 or 420 points per team. Examples are:

A. All teams with four individuals.

		Events									
Field Problem		Calibration									
Super University	ID	Crop/Weed Response	1	2	Avg.	Team	Ind.	Myst.	Score	Ind.	Team Placing
John Doe	86	60	25	19	44	--	45	5	240	9	
Bill Smith	80	65	47	31	78	--	35	5	263	5	
Jane Doe	95	75	35	25	60	--	45	0	275	1	
Roy James	63	50	43	43	86	--	45	3	247	7	
Total	324.0	250.0	--	--	268	--	170	13			
Team Avg.	81.0	62.5	--	--	67	40	42.5	3.25			
Team											3
Total	296.25										
Alternates											
Pat Ray	80	60	31	201	51	--	45	5	241	8	
Jim Jones	65	45	27	18	45	--	50	0	205	20	

B. Mixed three and four individual teams (if teams with three individuals attend).

		Events									
Field Problem		Calibration									
Super University	ID	Crop/Weed Response	1	2	Avg.	Team	Ind.	Myst.	Score	Ind.	Team Placing
John Doe	--	--	--	--	--	--	--	--	240	9	
Bill Smith	80	65	47	31	78	--	35	5	263	5	
Jane Doe	95	75	35	25	60	--	45	0	275	1	
Roy James	63	50	43	43	86	--	45	3	247	7	
Total	238.0	190.0	--	--	224	--	125	8			
Team Avg.	79.33	63.33	--	--	74.6	40	41.67	2.67			
Team											3
Total	301.67										
Alternates											
Pat Ray	80	60	31	20	51	--	45	5	241	8	
Jim Jones	65	45	27	18	45	--	50	0	205	20	

Alternates and low individuals of four member teams will not be scored as part of a team, but can win individual prizes.

Contest Committee:

All coaches and individuals within academia, research, and industry, as well as potential contest hosts are invited to serve on the committee. On the morning of the contest, prior to contestants entering the events, individuals from the host location and all committee members will review each event and last minute corrections will be made and be the authority for all questions relating to the contest. If questions
arise that cannot be resolved through interpretation of the standing rules or cannot be resolved through communication with the committee chairman or members of the committee, the contest host has the authority to make the final decision in the best interest of the contest.

Expenses:

Each university will provide its own transportation to and from the contest and cover all expenses incurred during travel. The host will provide meals the evening before and the day of the contest. The weed contest committee will provide the prize money and the plaques.

Location:

The Southern Weed Contest will be held at any facility within the Southern Weed Science Region with the capability of providing all the designated events.

Dishonesty:

All coaches are charged with ensuring that teams abide by rules of the contest, and that no team gains an unfair advantage. This includes, but is not limited to, cheating. Cheating is defined as a dishonest violation of rules as determined by the coaches attending the contest. A committee made up of all coaches attending the contest will deal with acts related to cheating. A team and/or individual that do not abide by the rules of the contest will be disqualified and will automatically receive last place at the contest. Teams are not allowed to visit contest site 30 days prior to contest without permission of host. **All contestants' cell phones, iPad's, or computers will be collected by team coaches and bagged by individual name when arriving at the contest site on the morning of the event.**

Table 1. 2014 SWSS WEED CONTEST WEED LIST

Common name	**Genus**	**Species**
velvetleaf	*Abutilon*	*theophrasti*
hophornbeam copperleaf	*Acalypha*	*ostryifolia*
northern jointvetch	*Aeschynomene*	*virginica*
alligatorweed	***Alternanthera***	***philoxeroides***
Palmer amaranth	*Amaranthus*	*palmeri*
redroot pigweed	***Amaranthus***	***retroflexus***
spiny amaranth	***Amaranthus***	***spinosus***
tall waterhemp	***Amaranthus***	***tuberculatus***
common ragweed	*Ambrosia*	*artemisiifolia*
giant ragweed	*Ambrosia*	*trifida*
purple ammannia	*Ammannia*	*robusta*
broomsedge	*Andropogon*	*virginicus*
trumpetcreeper	*Campsis*	*radicans*
musk thistle	*Carduus*	*nutans*
smellmelon	*Cucumis*	*melo*
southern sandbur	*Cenchrus*	*echinatus*
prostrate spurge	*Chamaesyce*	*humistrata*
spotted spurge	*Chamaesyce*	*maculata*
common lambsquarters	*Chenopodium*	*album*
bull thistle	*Cirsium*	*vulgare*
spreading dayflower	*Commelina*	*diffusa*
field bindweed	*Convolvulus*	*arvensis*
horseweed	*Conyza*	*canadensis*
showy crotalaria	*Crotalaria*	*spectabilis*
woolly croton	*Croton*	*capitatus*
tropic croton	*Croton*	*glandulosus* var. *septentrionalis*
honeyvine swallowwort	*Cynanchum*	*laeve*
bermudagrass	*Cynodon*	*dactylon*
yellow nutsedge	*Cyperus*	*esculentus*
purple nutsedge	*Cyperus*	*rotundus*
rice flatsedge	*Cyperus*	*iria*
crowfootgrass	*Dactyloctenium*	*aegyptium*
jimsonweed	*Datura*	*stramonium*

Florida beggarweed	*Desmodium*	*tortuosum*
smooth crabgrass	***Digitaria***	***ischaemum***
large crabgrass	*Digitaria*	*sanguinalis*
Virginia buttonweed	*Diodia*	*virginiana*
junglerice	*Echinochloa*	*colona*
barnyardgrass	*Echinochloa*	*crus-galli*
eclipta	***Eclipta***	***prostrata***
goosegrass	*Eleusine*	*indica*
southwestern cupgrass	*Eriochloa*	*acuminata*
wild poinsettia	*Euphorbia*	*heterophylla*
Carolina geranium	*Geranium*	*carolinianum*
ground ivy	*Glechoma*	*hederacea*
common sunflower	*Helianthus*	*annuus*
ducksalad	***Heteranthera***	***limosa***
hydrilla	***Hydrilla***	***verticillata***
cogongrass	*Imperata*	*cylindrica*
red morningglory	*Ipomoea*	*coccinea*
ivyleaf morningglory	*Ipomoea*	*hederacea*
pitted morningglory	*Ipomoea*	*lacunosa*
bigroot morningglory	*Ipomoea*	*pandurata*
tall morningglory	*Ipomoea*	*purpurea*
palmleaf morningglory	*Ipomoea*	*wrightii*
smallflower morningglory	*Jacquemontia*	*tamnifolia*
green kyllinga	***Kyllinga***	***brevifolia***
henbit	*Lamium*	*amplexicaule*
Amazon sprangletop	*Leptochloa*	*panicoides*
bearded sprangletop	*Leptochloa*	*fusca var. fascicularis*
sericea lespedeza	*Lespedeza*	*cuneata*
tall fescue	*Lolium*	*arundinaceum*
Italian ryegrass	*Lolium*	*perenne* ssp. *multiflorum*
carpetweed	*Mollugo*	*verticillata*
cutleaf evening-primrose	*Oenothera*	*laciniata*
red rice	*Oryza*	*sativa*
yellow woodsorrel	*Oxalis*	*stricta*
fall panicum	*Panicum*	*dichotomiflorum*

torpedograss	*Panicum*	*repens*
dallisgrass	*Paspalum*	*dilatatum*
cutleaf groundcherry	*Physalis*	*angulata*
clammy groundcherry	*Physalis*	*heterophylla*
buckhorn plantain	*Plantago*	*lanceolata*
annual bluegrass	*Poa*	*annua*
prostrate knotweed	*Polygonum*	*aviculare*
Pennsylvania smartweed	*Polygonum*	*pensylvanicum*
ladysthumb	*Polygonum*	*persicaria*
common purslane	*Portulaca*	*oleracea*
wild radish	*Raphanus*	*raphanistrum*
Florida pusley	*Richardia*	*scabra*
curly dock	*Rumex*	*crispus*
sicklepod	*Senna*	*obtusifolia*
coffee senna	*Senna*	*occidentalis*
hemp sesbania	*Sesbania*	*herbacea*
giant foxtail	*Setaria*	*faberi*
yellow foxtail	*Setaria*	*pumila*
green foxtail	*Setaria*	*viridis*
arrowleaf sida	*Sida*	*rhombifolia*
prickly sida	*Sida*	*spinosa*
horsenettle	*Solanum*	*carolinense*
silverleaf nightshade	*Solanum*	*elaeagnifolium*
eastern black nightshade	*Solanum*	*ptychanthum*
lawn burweed	*Soliva*	*sessilis*
johnsongrass	*Sorghum*	*halepense*
common chickweed	*Stellaria*	*media*
dandelion	*Taraxacum*	*officinale*
puncturevine	*Tribulus*	*terrestris*
broadleaf signalgrass	*Urochloa*	*platyphylla*
Texas millet	*Urochloa*	*texana*
common cocklebur	*Xanthium*	*strumarium*

*** Bold -- plants only**

Table 2. 2014 SOUTHERN WEED CONTEST CROP AND WEED RESPONSE TO HERBICIDES

Crops*		Weeds	
1. cotton	6. southern pea	1. broadleaf signalgrass	7. Palmer amaranth
2. field corn	7. soybean	2. ivyleaf morningglory	8. pitted morningglory
3. grain sorghum	8. sunflower	3. giant foxtail	9. prickly sida
4. peanut	9. squash/zucchini	4. hemp sesbania	10. seedling johnsongrass
5. rice	10. sweet potato	5. large crabgrass	11. velvetleaf
6. barnyardgrass			12. sicklepod

*At least 6 crops and 6 weeds must be included

Potential Herbicide Families and Herbicides	
Amide 1. propanil (4.0 lb ai/A POST)	**Isoxazoline** 12. pyroxasulfone (0.106 lb ai/A PRE)
Sulfonanilide 2. cloransulam-methyl (0.0394 lb ai/A PRE)	**Phenoxy** 13. 2,4-D (0.5 lb ae/A POST)
Benzoic acid 3. dicamba (0.25 lb ai/A POST)	**N-Phenylphthalimide** 14. flumioxazin (0.064 lb ai/A PRE)
Bipyridylium 4. paraquat (0.5 lb ai/A POST) + NIS	**Phosphinic acid** 15. glufosinate (0.54 lb ai/A POST) + NIS
Chloroacetamide 5. *S*-metolachlor (1.25 lb ai/A PRE)	**Pyrimidinedione** 16. saflufenacil (0.0223 lb ai/A POST) + MSO
Cyclohexanedione 6. sethoxydim (0.191 lb ai/A POST) + COC	**Quinoline carboxylic acid** 17. quinclorac (0.5 lb ai/A POST) + MSO
Dinitroaniline 7. pendimethalin (1.0 lb ai/A PRE)	**Substituted urea** 18. diuron (0.5 lb ai/A PRE) 19. fluometuron (1.0 lb ai/A PRE)
Diphenylether 8. fomesafen (0.25 lb ai/A POST) + COC	**Sulfonylurea** 20. chlorimuron (0.0156 lb ai/A PRE) 21. trifloxysulfuron (0.007 lb ai/A POST) + NIS
Glycine 9. glyphosate (0.77 lb ae/A POST) + NIS	**Triazine** 22. atrazine (1.5 lb ai/A POST) + COC 23. metribuzin (0.375 lb ai/A PRE)
Imidazolinone 10. imazethapyr (0.063 lb ai/A POST) + NIS	**Triazolinones** 24. carfentrazone (0.023 lb ai/A POST) + COC
Isoxazolidinone 11. clomazone (0.375 lb ai/A PRE)	**Triketone** 25. mesotrione (0.094 lb ai/A POST) + MSO

**COC = crop oil concentrate at 1% (v/v); NIS = nonionic surfactant at 0.25% (v/v); MSO = methylated seed oil at 1% v/v. Some herbicide formulations may include an adjuvant system and do not require additional adjuvants. Label rates should be followed and adjusted based on soil type. The soil types will range from a silt loam to silty clay loam (0.7-1.1% O.M., CEC of 12-18, pH of 5.9-6.8).

PROBLEM SOLVING AND RECOMMENDATIONS

Potential Crops (6):

Cotton Field corn Grain
sorghum Soybean Sunflower
Tomatoes

Weeds:

Any weed from the 2014 weed identification list.

Herbicides:

Any herbicide labeled in the crops listed above.

Scoring:

The 'farmer' and a judge will independently score each contestant from predetermined scoring sheet.

Role:

Each contestant will be assuming the role of a chemical company representative, independent crop consultant, or state extension specialist.

If your University intends to participate in the 2014 Weed Contest, please get your entry to Bruce Kirksey (bkirksey@agricenter.org) no later than June 1

Hotel info:
Rooms blocked for event at:
Holiday Inn Express
7784 Wolf Trail Cove
Germantown, TN 38138
901-309-6700
Group code WSS
$99.00 for 2 queens, $94.00 for a king
Rooms will be released July 16.

Other hotels are nearby as well. Please check out our website: http://agricenter.org/expohotels.html

Contest will be held at
Agricenter International
7777 Walnut Grove Road
Memphis, TN 38015
901-757-7777

August 5 – Arrive late afternoon and we will meet at Agricenter C-Wing, Banquet Room for supper and instructions for the contest on August 6. Specific times will be sent at a later date.

Assistant Professor and Weed Science Extension Specialist
Department of Crop, Soil & Environmental Sciences
Auburn University

The Department of Crop, Soil & Environmental Sciences (formerly Agronomy & Soils) in the College of Agriculture at Auburn University is seeking applications for the position of Assistant Professor / Weed Science Extension Specialist in the program area of weed biology and management in various agronomic and vegetable crops. This faculty position will be a 9 month, tenure-track position with a 75% Extension and 25% Research appointment. The projected start date will be January 1, 2015.

The position will be housed in the College of Agriculture's Department of Crop, Soil & Environmental Sciences and will work collaboratively with the Alabama Agricultural Experiment Station (AAES), and perform functions of the Alabama Cooperative Extension System (ACES), the primary Extension organization for the land-grant mission of Alabama A&M University and Auburn University. ACES is dedicated to delivering research-based educational programs designed to empower individuals to improve their quality of life and economic well-being. This person will serve as the primary resource contact for information on weed management in row and vegetable crops and will be expected to generate extramural funding to establish and maintain their program.

Responsibilities: The successful candidate in the position will be expected to develop a state-wide weed science educational program dealing primarily with agronomic and vegetable crops. The candidate will serve as an educational resource for producers, landowners, agribusiness persons, government agency personnel, Extension agents and specialists. The successful candidate will be responsible for conducting Regional Extension Agent training, field troubleshooting, producer oriented educational meetings, weed identification, development of weed management educational materials, establishment of weed science program priorities, coordination of weed science extension events and other related activities. The successful candidate will work in cooperation with County Extension Coordinators, Regional Extension Agents, Extension Specialists, and state clientele from various cropping specialties. The candidate will be an active member of the commercial horticulture and agronomic crop program priority teams (PPT) providing leadership in weed management projects and training.

The research program will be production-agriculture oriented and be designed to support related extension responsibilities. The successful candidate will work in cooperation with AAES personnel in conducting research and will direct and manage a graduate student program. The incumbent is expected to develop a funding base through competitive grants, private grants, gifts, and cost-share funds to support programs.

Qualifications: The minimum qualifications include a PhD in Weed Science or a closely related discipline from an accredited institution with a major emphasis on weed management in agronomic and/or vegetable crops. The PhD must be completed by the expected position start date. In addition, the successful candidate must possess or demonstrate: 1) formal education with extensive experience in production agriculture and field research; 2) effective written and interpersonal communication skills; 3) ability to develop grant proposals and acquire extramural funding for program support; 4) the ability to work cooperatively with individuals and groups; be willing to utilize various forms of outreach technology for program delivery; and 5) demonstrate evidence of energetic leadership and innovative thinking. The successful candidate must meet eligibility requirements for work in the United States at the time the appointment is scheduled to begin and continue working legally for the term of employment. Desired qualifications include a strong knowledge of agronomic production systems of the southeast, the ability to earn certification as a Certified Crop Advisor, and previous experience in Extension educational activities.

Application Procedures: Applicants must apply for the position by visiting the link: http://aufacultypositions.peopleadmin.com/postings/435 and attach the following: 1) cover letter that addresses the experience pertinent to the responsibilities of the position, 2) current curriculum vita, and 3) copies of ALL academic transcripts. When prompted, please provide names, phone numbers and email addresses of three professional references. Only complete application materials will be considered. Active review of applications will begin May 1, 2014, but the search will continue until the position is filled. To ensure consideration for the position, applicants are encouraged to apply by end of business on May 1, 2014. Questions about the position should be directed to: Stephen Enloe, Search Committee Chair, email: sfe0001@auburn.edu.

Auburn University is one of the nation's premier land, sea and space grant institutions with an enrollment of more than 25,400 graduate and undergraduate students. The University is located in the city of Auburn in east-central Alabama approximately 100 miles southwest of Atlanta, GA and southeast of Birmingham, AL and is about 60 miles from the state capitol (Montgomery). Visit www.auburn.edu for more information.

Minorities and women are encouraged to apply
ACES and Auburn University is an Affirmative Action/Equal Opportunity Employer

UF/IFAS
4253 Experiment Dr.
West Florida Research and Education Center
Jay, FL 32565-7332

850-983-7105
850-995-3723 Fax
wfrec.ifas.ufl.edu

POSITION ANNOUNCEMENT # 0001-4564
(Requisition # 0905013)

Title: **Cropping Systems Specialist, Assistant Professor**

Location: **West Florida Research and Education Center**
University of Florida
Institute of Food and Agricultural Sciences (IFAS)
Jay, Florida

Salary: **Commensurate with Qualifications and Experience**

Review Date: **To ensure full consideration please apply online and submit additional materials by May 1, 2014. Position will remain open until a viable applicant pool is identified.**

Duties and Responsibilities

This is a 12-month tenure-accruing Assistant Professor position that will be 60% research (Florida Agricultural Experiment Station) and 40% extension (Florida Cooperative Extension Service), available at the West Florida Research and Education Center, University of Florida, Institute of Food and Agricultural Sciences. This assignment may change in accordance with the needs of the unit. Economic pressures on Florida agriculture are requiring new approaches to maintain economically viable agricultural production systems. This position will utilize a systems approach to enhance and evaluate the sustainability, profitability, and delivery of ecosystem services of traditional agriculture (row crops) and emerging cropping systems. Research and extension duties will focus on innovative approaches in areas such as: traditional row crops (peanut, cotton, corn, soybean); specialty and alternative crops for newly initiated and value added markets; bioenergy crops; precision agriculture; conservation tillage; efficient nutrient and water management in crop based systems; crop rotations; environmental issues; crop protection; and carbon sequestration. The faculty member will utilize state-of-the-art techniques for soil, plant, and atmospheric analysis to generate information that will fill the gap in knowledge in cropping systems and disseminate this information through extension to end-users. This person will work closely with existing IFAS agronomic teams and develop a strong, multi-state regional partnership with Alabama, Georgia, and Mississippi.

Tenure will accrue in the Agronomy Department. The faculty member will participate in graduate education by chairing graduate committees, serving on graduate committees, supervising thesis and dissertation research, supervising undergraduate research, and publishing the results with his/her graduate students. The faculty member will seek contract and grant funding to support his/her program including operational costs, technical support, and equipment. The faculty member will engage in extension activities in his/her program area and work with other IFAS specialists and county agents to deliver extension programs to the target audiences using field days, grower meetings, newsletters, EDIS (Electronic Data

Information System) publications, and other electronic media. The faculty member will participate in Extension Initiatives and Priority Work Groups related to cropping systems. Because of the IFAS land-grant mission, all faculty are expected to be supportive of and engaged in all three mission areas—Research, Teaching and Extension—regardless of the assignment split specified in the position description.

Qualifications

An earned doctorate (foreign equivalent acceptable) in agronomy or a closely related discipline is required. Postdoctoral experience is desirable. Candidates should have demonstrated skills in verbal and written communication, interpersonal relationships, and procurement of extramural funding. Candidates must be supportive of the mission of the Land Grant system. Candidates must also have a commitment to IFAS core values of excellence, diversity, global involvement, and accountability. Candidates must be able to work on interdisciplinary team projects and to work with diverse audiences.

Background Information

The University of Florida (http://www.ufl.edu) is a Land-Grant and Sea-Grant institution, encompassing virtually all academic and professional disciplines, with an enrollment of more than 50,000 students. UF is a member of The Association of American Universities. The Institute of Food and Agricultural Sciences (http://ifas.ufl.edu) includes the College of Agricultural and Life Sciences (http://cals.ufl.edu), the Florida Agricultural Experiment Station (http://research.ifas.ufl.edu), the Florida Cooperative Extension Service (http://extension.ifas.ufl.edu), the College of Veterinary Medicine (http://www.vetmed.ufl.edu), the Florida Sea Grant program (http://www.flseagrant.org/), and encompasses 17 on-campus academic departments and schools, 13 Research and Educational Centers (REC) located throughout the state, 6 Research sites/demonstration units administered by RECs or academic departments, and Florida Cooperative Extension Service offices in all 67 counties (counties operate and maintain). The School of Natural Resources and Environment is an interdisciplinary unit housed in IFAS and managed by several colleges on campus. IFAS employs over 3400 people, which includes approximately 950 faculty and 2450 support personnel located in Gainesville and throughout the state. IFAS, one of the nation's largest agricultural and natural resources research and education organizations, is administered by a Senior Vice President and four deans: the Dean of the College of Agricultural and Life Sciences, the Dean for Extension and Director of the Florida Cooperative Extension Service, the Dean for Research and Director of the Florida Agricultural Experiment Station, and the Dean for the College of Veterinary Medicine. UF/IFAS also engages in cooperative work with Florida A&M University in Tallahassee.

This position is part of the UF/IFAS West Florida Research and Education Center located near Pensacola, Florida (http://wfrec.ifas.ufl.edu). The faculty member will be located at the Jay Research Facility. This 640 acre research unit is located about 12 miles north of Milton near Jay, FL. Research is conducted in cropping systems, weed science, golf and sports turf management, landscape and nursery management, forestry, and wildlife ecology. In addition to the Jay Research Facility, the center has an off-campus undergraduate academic program that is a collaborative effort between the University of Florida, Pensacola State College (PSC) and the University of West Florida. This unique academic program, located at the PSC campus in Milton (approximately 20 miles northeast of Pensacola, FL), allows students to pursue a B.S. degree in Natural Resource Conservation or Plant Sciences.
WFREC faculty and staff are dedicated to interdisciplinary research, extension and teaching programs that meet the needs of local clientele with statewide, nationwide as well as global impacts. The location of WFREC allows families to enjoy the advantages of rural living while being within minutes of Pensacola, one of Florida's major cities, Gulf of Mexico beaches; and extensive public forest lands.

Employment Conditions
This position is available July 1, 2014 and will be filled as soon thereafter as an acceptable applicant is available. Compensation is commensurate with the education, experience, and qualifications of the selected applicant.

Nominations
Nominations are welcome. Nominations need to include the complete name and address of the nominee. This information should be sent to the Chair, Search and Screen Committee at the address shown below.

Application Information
Individuals wishing to apply should go online to http://jobs.ufl.edu/postings/49720 and submit:

- Application
- Cover letter that states applicant's interest in the position and qualifications relative to the credentials listed above
- Curriculum vitae

Official transcripts showing receipt of the doctoral degree and three letters of recommendation should be sent to:

J. Bryan Unruh, Ph.D.
Chair, Search and Screen Committee
University of Florida
WFREC
4253 Experiment Drive, Hwy. 182
Jay, FL 32565

Telephone: **850-982-7951**
Facsimile: **850-995-3723**
Electronic Mail: **jbu@ufl.edu**

(Please refer to Requisition # 0905013)

Final candidate will be required to provide official transcript to the hiring department upon hire. A transcript will not be considered "official" if a designation of "Issued to Student" is visible. Degrees earned from an education institution outside of the United States are required to be evaluated by a professional credentialing service provider approved by National Association of Credential Evaluation Services (NACES), which can be found at http://www.naces.org/ .

The University of Florida is an Equal Opportunity Institution dedicated to building a broadly diverse and inclusive faculty and staff. The selection process will be conducted in accord with the provisions of Florida's 'Government in the Sunshine' and Public Records Laws. Search committee meetings and interviews will be open to the public, and applications, resumes, and many other documents related to the search will be available for public inspection. Persons with disabilities have the right to request and receive reasonable accommodation.