

# COMPLETE PROGRAM

Sunday, February 08, 2009

8:00 AM - 5:00 PM

IBG Workshop

**Location:** Narcissus/Orange

**Chair:** J. Neal\*; Horticultural Science, North Carolina State University, Raleigh, NC

**Chair:** J. Lydon\*; Sustainable Agricultural Systems Laboratory, USDA/ARS, Beltsville, MD.

**Chair:** W. Bruckart\*; Foreign Disease-Weed Science Research Unit, USDA-ARS, Ft. Detrick, MD.

8:45 a.m. – 9:00 a.m.

## **Introduction.**

9:00 a.m. – 9:15 a.m.

1. **Efficacy of biological control of grassy weeds using *Curvularia eragrostidis* in the field trial.** Y. Zhu, T. Gao, J. Wang, Y. Lu, S. Qiang\*; Nanjing Agricultural University, Nanjing, China.

9:15 a.m. – 9:30 a.m.

2. **Evaluation of bioherbicidal control of tropical signalgrass, *Urochloa subquadriflora*.** Y. M. Shabana\*,<sup>1</sup> C. Stiles,<sup>2</sup> R. Charudattan,<sup>1</sup> A. Abou Tabl,<sup>1</sup> J. White<sup>1</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>Valdosta State University, Valdosta, GA.

9:30 a.m. – 9:45 a.m.

3. **Screening fungal pathogens of *Microstegium vimineum* as potential biocontrol agents.** L. C. Walker\*, J. C. Neal, L. P. Tredway; North Carolina State University, Raleigh, NC.

9:45 a.m. – 10:00 a.m.

4. **The Model of Conidia Production in *Helminthosporium* spp., Biological Agents for Grassy Weeds Control.** K. Yamaguchi\*; Minami Kyushu University, Takanabe-cho, Japan.

10:00 a.m. – 10:30 a.m.

## **Break**

10:30 a.m. – 10:45 a.m.

5. **A search for a root-pathogen of *Cirsium arvense* in New Zealand.** G. W. Bourdot\*,<sup>1</sup> B. Skipp,<sup>2</sup> G. Hurrell,<sup>1</sup> D. Saville<sup>3</sup>; <sup>1</sup>AgResearch Limited, Christchurch, New Zealand, <sup>2</sup>AgResearch Limited, Palmerston North, New Zealand, <sup>3</sup>Saville Statistical Consulting Limited, Christchurch, New Zealand.

10:45 a.m. – 11:00 a.m.

6. **Root Colonization and Environmental Fate of the Bioherbicide *Pseudomonas fluorescens* BRG100.** S. M. Boyetchko\*,<sup>1</sup> C. Hanson,<sup>1</sup> R. K. Hynes,<sup>1</sup> D. Korber<sup>2</sup>; <sup>1</sup>Agriculture and Agri-Food Canada, Saskatoon, SK, Canada, <sup>2</sup>University of Saskatchewan, Saskatoon, SK, Canada.

11:00 a.m. – 11:15 a.m.

7. **Herbicide-deleterious rhizobacterial interactions in Velvet-leaf weed control.** R. Zdor\*; Andrews University, Berrien Springs, MI.

11:15 a.m. – 11:30 a.m.

8. **Using Gene Fusions to Study Cyanogenesis in a Weed Deleterious Rhizobacterium.** M. M. Biswas\*, R. Zdor, C. Miller; Andrews University, Berrien Springs, MI.

11:30 a.m. – 11:45 a.m.

**Discussion.**

11:45 a.m. – 12:00 p.m.

**Lunch**

**Sunday, February 08, 2009  
1:00 PM - 5:00 PM  
IBG Workshop**

**Location:** Narcissus/Orange

1:15 p.m. – 1:30 p.m.

9. **Bioherbicidal potential of volatile oil from redstem wormwood (*Artemisia scoparia*) against coffee weed (*Cassia occidentalis*) and slender amaranth (*Amaranthus viridis*).** S. Mittal\*, H. P. Singh, R. K. Kohli, D. R. Batish; Panjab Univ., Chandigarh, India.

1:30 p.m. – 1:45 p.m.

10. **Fungal toxins and other natural metabolites for management of parasitic weeds.** M. Vurro\*, A. Boari; National Research Council, Bari, Italy.

1:45 p.m. – 2:00 p.m.

11. **Pathogenic Mechanisms of Vulcubic Acid Produced by *Nimbya alternantherae*.** M. Xiang\*,<sup>1</sup> L. Fan,<sup>1</sup> Z. Jiang,<sup>2</sup> Y. Zeng<sup>1</sup>; <sup>1</sup>Zhongkai University of Agriculture and Engineering, Guangzhou, China, <sup>2</sup>South China Agricultural University, Guangzhou, China.

2:00 p.m. – 2:15 p.m.

**Discussion.**

2:15 p.m. – 2:30 p.m.

12. **Surfactants affect the efficacy of *Alternaria cassiae* controlling sicklepod seedlings.** R. A. Pitelli\*, C. F. Franco, F. M. Claudia; University of State of Sao Paulo, Jaboticabal, Brazil.

2:30 p.m. – 2:45 p.m.

13. **Effects of *Phomopsis amaranthicola* on the Above- and Below-ground Interference of Pigweeds with Bell Pepper.** J. Morales-Payan\*,<sup>1</sup> R. Charudattan,<sup>2</sup> W. M. Stall<sup>2</sup>; <sup>1</sup>University of Puerto Rico-Mayaguez Campus, Mayaguez, PR, <sup>2</sup>University of Florida, Gainesville, FL.

2:45 p.m. – 3:00 p.m.

14. **Ecology, Biology and Control of Alien-Invasive Forestry Weeds by Integrating with Bioherbicides.** R. R. Prasad\*; Pacific Forestry Centre, Canadian Forestry Service, Victoria, BC, Canada.

3:00 p.m. – 3:15 p.m.

15. **Native Phytopathogens As Biocontrol Agents: Problems And Potential In The Management Of Invasive Exotic Species.** K. Jayachandran\*, K. G. Shetty; Florida International University, Miami, FL.

3:15 p.m. – 3:30 p.m.

16. **The Duel Effect of Plant Growth-Suppressing Rhizobacteria and a Tuber Pathogenic Fungus on *Cyperus Rotundus*.** L. Singh\*, P. S. Kumar; Project Directorate of Biological Control, Bangalore, India.

3:30 p.m. – 3:45 p.m.

17. **Bioherbicide development against water hyacinth: the story so far and the hopes for the future.** R. W. Barreto\*, D. J. Soares, E. M. Inokuti; Universidade Federal de Viçosa, Viçosa, MG, Brazil.

3:45 p.m. – 4:00 p.m.

**Break**

4:00 p.m. – 4:15 p.m.

18. **Status of *Phoma macrostoma*, a bioherbicide for broad-leaved weed control in turfgrass.** K. L. Bailey\*,<sup>1</sup> S. Falk,<sup>2</sup> S. Lombardo<sup>2</sup>; <sup>1</sup>Agriculture & Agri-Food Canada, Saskatoon, SK, Canada, <sup>2</sup>The Scotts Company, Marysville, OH.

4:15 p.m. – 4:30 p.m.

19. **Innovations for Scaling-up of *Striga* Mycoherbicides Application in Africa.** A. Elzein\*,<sup>1</sup> J. Kroschel,<sup>2</sup> P. Marley,<sup>3</sup> B. Fen,<sup>4</sup> G. Cadisch<sup>5</sup>; <sup>1</sup>University of Hohenheim, Stuttgart, Germany, <sup>2</sup>Integrated Crop Management Division, International Potato Center (CIP), Lima, Peru, <sup>3</sup>Institute for Agricultural Research/Faculty of Agriculture, Ahmadu Bello University, Samaru, Zaria, Nigeria, <sup>4</sup>International Institute of Tropical Agriculture (IITA), Cotonou, Benin, <sup>5</sup>University of Hohenheim (308), Stuttgart, Germany.

4:30 p.m. – 5:00 p.m.

**Discussion.**

5:00 p.m. – 5:30 p.m.

**Business Meeting**

**Monday to Friday  
February 9 to 13  
WSSA SUSTAINING MEMBERS  
EXHIBITS SESSION**

**Location:** Salons 4 & 5

**Chair:** Pat McMullan, Agriculture & Agri-Food Canada

7:45 a.m. Monday

Sustaining Members Exhibits Session meeting to elect a Chair-Elect.

Setup 12:00 noon to 4:00 p.m. Sunday

8:00 a.m. to 3:00 p.m. Monday

8:00 a.m. to 3:00 p.m. Tuesday

8:00 a.m. to 3:00 p.m. Wednesday

8:00 a.m. to 3:00 p.m. Thursday

8:00 a.m. to 12:00 noon Friday

Please remove exhibits by 12:00 noon on Friday

**Exhibitor and Representative**

E.I. Dupont .....	Wynn John
Gylling Data Management .....	Steve Gylling
Herbiseed .....	Steve Morton
LABServices .....	James Steffel
MARATHON Ag/Environmental .....	Phil Banks
Weed Systems Inc. ....	Wayne Currey

**MONDAY AM, February 9  
POSTER SESSIONS**

**Location:** Salon 4 & 5

**Chair:** Sharon Clay, South Dakota State Univ., Brookings, SD.

Posters for Poster Session 1 may be set up on Monday from 10:00 a.m. until 12:00 noon. Authors for Poster Session 1 should remove posters from 10:00 a.m. – 12:00 noon on Wednesday. Authors for Poster Session 2 should set up their posters from 10:00 a.m. – 12:00 noon on Wednesday. Authors for Poster Session 2 should remove their posters by 12:00 noon on Friday.

This year, rather than having one time for all poster authors to be present for discussion, we are having discussion sessions for the posters arranged topically. Twelve posters will be pulled out of the “poster room” and displayed in one of our breakout rooms for a specific two-hour period. The author will give a five-minute overview of their objectives and major findings, and then an hour is set aside for a discussion period on the thematic area that the group of posters represents.

If you are a poster presenter, you will be responsible for moving your poster from the general poster exhibit area to

the room designated for your discussion group and then returning it at the end of the discussion.

8:00 a.m. – 8:15 a.m.

**Business Meeting to elect Chair-Elect**

**Monday, February 09, 2009**  
**1:00 PM - 3:00 PM**  
**Posters, Group I - Session 1**  
**(SWSS M.S. Poster Contest)**

**Location:** Salons 7 & 8

**20. Weed management practices used in blueberry production: a survey of North Carolina blueberry growers.** M. M. Roberts\*, K. M. Jennings, D. W. Monks; North Carolina State University, Raleigh, NC.

**21. Sorghum tolerance and weed management with Kixor.** B. A. Brown\*,<sup>1</sup> J. W. Keeling,<sup>2</sup> P. A. Dotray<sup>2</sup>; <sup>1</sup>Texas AgriLife Research/Texas Tech University, Lubbock, TX, <sup>2</sup>Texas AgriLife Research, Lubbock, TX.

**22. Survey Of Naturally Occurring Disease Of *Lygodium Microphyllum* In South Florida Natural Areas: Prevalence And Potential For Biocontrol Agents.** B. Pandey\*,<sup>1</sup> K. G. Shetty,<sup>1</sup> S. Miao,<sup>2</sup> L. Rodgers,<sup>2</sup> K. Jayachandran<sup>1</sup>; <sup>1</sup>Florida International University, Miami, FL, <sup>2</sup>South Florida Water Management District, West Palm Beach, FL.

**23. Apical dominance and planting density effects on weed suppression by Sunn Hemp.** A. H. Cho\*, C. A. Chase; University of Florida, Gainesville, FL.

**24. Quantification of warm-season turfgrass phytotoxicity from broadleaf control herbicides.** M. L. Flessner\*,<sup>1</sup> J. S. McElroy,<sup>2</sup> R. H. Walker<sup>1</sup>; <sup>1</sup>Auburn University, Auburn Univ., AL, <sup>2</sup>Auburn Univ., Auburn Univ., AL.

**25. Triclopyr enhances Metamifop and Clodinafop control of Bermudagrass and reduces Zoysiagrass injury.** M. C. Doroh\*, J. S. McElroy, E. A. Guertal; Auburn Univ., Auburn, AL.

**26. Continued evaluation of pollen dispersal from Palmer amaranth in North Carolina.** A. Stark\*,<sup>1</sup> S. Hoyle,<sup>1</sup> L. Wang,<sup>1</sup> M. Burton,<sup>2</sup> R. Richardson,<sup>1</sup> D. Jordan<sup>1</sup>; <sup>1</sup>NC State University, Raleigh, NC, <sup>2</sup>Missouri State University, Springfield, MO.

**27. Evaluation of horsenettle (*Solanum carolinense*) control with quadrat and line transect techniques.** J. A. Tolson\*, D.

M. Fryman, W. W. Witt; University of Kentucky, Lexington, KY.

28. **Clover Response To Soil Concentrations of Pasture Herbicides.** M. E. Edwards\*, W. W. Witt, J. D. Green; University of Kentucky, Lexington, KY.

29. **Fomesafen for Palmer amaranth control in peanut.** M. H. Dobrow\*, J. A. Ferrell, G. E. MacDonald; University of Florida, Gainesville, FL.

30. **Giant Ragweed Control in Soybeans.** B. Waggoner\*,<sup>1</sup> L. E. Steckel,<sup>1</sup> T. Mueller<sup>2</sup>; <sup>1</sup>University of Tennessee, Jackson, TN, <sup>2</sup>University of Tennessee, Knoxville, TN.

31. **Weed control in warm-season turf with amicarbazone and flucarbazone.** R. H. Walker\*; Auburn University, Auburn University, AL.

**Tuesday, February 10, 2009**

**8:00 AM - 10:00 AM**

**Posters, Group I - Session 2 (Weed Resistance, Weed Shifts, and Population Dynamics)**

**Location:** Salons 2 & 3

8:00 a.m

32. **Spatial movement of glyphosate-resistant Palmer amaranth in cotton.** G. M. Griffith\*, J. K. Norsworthy, K. L. Smith, V. Skinner; University of Arkansas, Fayetteville, AR.

33. **Can Palmer Amaranth Tolerance to Glyphosate be Increased with Low Glyphosate Doses?** L. E. Estorninos\*, J. K. Norsworthy, S. Bangarwa, G. M. Griffith, J. A. Still; University of Arkansas, Fayetteville, AR.

34. **Evaluation of *Amaranthus rudis* accessions for susceptibility to glyphosate.** G. G. Light\*,<sup>1</sup> P. A. Dotray,<sup>2</sup> R. J. Wright,<sup>3</sup> L. V. Gilbert,<sup>4</sup> J. Cuarezma<sup>5</sup>; <sup>1</sup>Texas Tech University, Lubbock, TX, <sup>2</sup>Texas Tech University and Texas AgriLife Research & Extension, Lubbock, TX, <sup>3</sup>Texas Tech University and Texas AgriLife Research, Lubbock, TX, <sup>4</sup>Texas AgriLife Research, Lubbock, TX, <sup>5</sup>Monsanto Company, The Woodlands, TX.

35. **Effect of glyphosate rates on common waterhemp (*Amaranthus rudis*) ecotypes.** M. Y. Mohammed\*,<sup>1</sup> N. R. Falkenberg,<sup>2</sup> J. M. Chandler<sup>3</sup>; <sup>1</sup>Borlaug Institute for International Agriculture - Texas A&M University System, College Station, TX, <sup>2</sup>Department of Soil and Crops Sciences - Texas A&M University, College Station, TX, <sup>3</sup>Department of Soil and Crops Sciences - Texas A&M University System, College Station, TX.

36. **Influence of Timing of Weed Removal on Soybean Growth and Development.** S. A. Hansen\*, S. A. Clay, D. E. Clay, G. Reicks; South Dakota State University, Brookings, SD.

37. **Weed Count Timing Correlated to Seed Bank Grow Outs.** E. E. Frasure\*,<sup>1</sup> M. Bernards,<sup>1</sup> R. Wilson,<sup>2</sup> L. Howlett<sup>2</sup>; <sup>1</sup>University of Nebraska, Lincoln, NE, <sup>2</sup>University of Nebraska, Scottsbluff, NE.

38. **Emergence patterns of Palmer amaranth, Apple of Peru, Eastern blacknightshade, and Cutleaf groundcherry in row crops.** A. Stark\*,<sup>1</sup> S. Hoyle,<sup>1</sup> R. Richardson,<sup>1</sup> A. York,<sup>1</sup> M. Burton,<sup>2</sup> D. Jordan<sup>1</sup>; <sup>1</sup>NC State University, Raleigh, NC, <sup>2</sup>Missouri State University, Springfield, MO.

39. **Grazing by white-tailed deer alters weed seedbank composition in old-fields.** A. DiTommaso\*, S. H. Morris, A. A. Agrawal; Cornell University, Ithaca, NY.

40. **A Rainfed Rotation of Glyphosate Resistant Corn and Soybean and Shifts in Weed Species.** R. N. Klein\*, G. E. Hanson; University of Nebraska, North Platte, NE.

41. **Weed Population Dynamics in Pacific Northwest Minimum Disturbance Systems.** I. C. Burke\*,<sup>1</sup> E. Gallandt,<sup>2</sup> S. Higgins,<sup>1</sup> D. Huggins<sup>3</sup>; <sup>1</sup>Washington State University, Pullman, WA, <sup>2</sup>University of Maine, Orono, ME, <sup>3</sup>USDA-ARS Pullman, Pullman, WA.

42. **Climate effects on weed population dynamics. A long-term study.** J. L. Gonzalez-Andujar\*,<sup>1</sup> M. Lima,<sup>2</sup> L. Navarrete<sup>3</sup>; <sup>1</sup>Instituto de Agricultura Sostenible (CSIC), Cordoba, Spain, <sup>2</sup>Pontificia Universidad Catolica de Chile, Santiago, Chile, <sup>3</sup>Instituto Madrileño de Investigación Agraria y Alimentaria (IMIDRA), Alcala de Henares, Spain

43. **Predicting the geography of weed damage in a changing climate.** A. McDonald\*, A. DiTommaso, A. DeGaetano, S. Riha; Cornell University, Ithaca, NY.

9:00 a.m. – 10:00 a.m.

**Discussion.**

**Tuesday, February 10, 2009**

**10:00 AM - 12:00 PM**

**Posters, Group I - Session 3**

**(Weed Biology & Ecology)**

**Location:** Salons 2 & 3

44. **Diurnal Rhythm of Catechin Exudation by an Invasive Plant-Spotted Knapweed (*Centaurea Maculosa*).** D. Trieb-

wasser\*, J. Cannon, N. Tharayil; Clemson University, Clemson, SC.

45. **Dehydration-stress affects vegetative reproduction and transcriptome profiles in underground adventitious buds of leafy spurge (*Euphorbia esula*).** M. Dogramaci\*,<sup>1</sup> D. P. Horvath,<sup>2</sup> M. J. Christoffers,<sup>1</sup> J. V. Anderson<sup>2</sup>; <sup>1</sup>North Dakota State University, Fargo, ND, <sup>2</sup>USDA-ARS, Fargo, ND.

46. **Effects of temperature, photoperiod, and vernalization on endodormancy and flowering of leafy spurge.** M. E. Foley\*, J. V. Anderson, D. P. Horvath; USDA-ARS, Fargo, ND.

47. **Early Growth and Development Response of Corn to Canola Competition and Shade Stress.** J. C. Moriles\*,<sup>1</sup> S. A. Clay,<sup>1</sup> D. E. Clay,<sup>1</sup> D. Horvath,<sup>2</sup> S. Hansen<sup>1</sup>; <sup>1</sup>South Dakota State University, Brookings, SD, <sup>2</sup>USDA-ARS, Fargo, ND.

48. **Dose Response Study of Acetyl-Coenzyme A Carboxylase-Inhibiting Herbicides in Sorghum Species.** K. S. Kershner\*,<sup>1</sup> K. Al-Khatib,<sup>1</sup> M. R. Tuinstra<sup>2</sup>; <sup>1</sup>Kansas State Univ, Manhattan, KS, <sup>2</sup>Purdue University, West Lafayette, IN.

49. **Genetic Variation in Purple Nutsedge (*Cyperus rotundus*).** W. T. Molin\*, J. Ray, B. Scheffler, R. Kronfol, C. Bryson; USDA-ARS, Stoneville, MS.

50. **Dormancy and Germination of Weedy *Citrullus lanatus* (Cucurbitaceae) in the Mediterranean-climatic Agricultural Region of Western Australia.** P. J. Michael\*,<sup>1</sup> K. J. Steadman<sup>2</sup>; <sup>1</sup>Curtin University of Technology, Perth, Australia, <sup>2</sup>University of Queensland, Brisbane, Australia.

51. **Biology and Ecology of Brownscale Sedge (*Cyperus fuscus*).** C. T. Bryson\*,<sup>1</sup> R. Carter<sup>2</sup>; <sup>1</sup>USDA-ARS, Stoneville, MS, <sup>2</sup>Valdosta State University, Valdosta, GA.

52. **Distribution of *Ambrosia trifida* plant size and other characteristics in different herbicide management programs.** D. Refsell\*,<sup>1</sup> M. Williams,<sup>2</sup> A. Davis<sup>2</sup>; <sup>1</sup>University of Illinois, Urbana, IL, <sup>2</sup>USDA ARS, Urbana, IL.

53. **Effect of flooding on survival and growth of Texasweed (*Caperonia palustris*).** R. K. Godara\*, B. J. Williams, S. L. Angel; Louisiana State University AgCenter, Baton Rouge, LA.

54. **Structural and Compositional Differences Between the Explosive Bittercress and Non-explosive Arabidopsis Siliques.** K. C. Vaughn\*, A. J. Bowling; USDA-ARS, Stoneville, MS.

55. **Is flowering of the parasitic plant dodder (*Cuscuta*) initiated by its host?** L. Jiang\*, D. Doohan; The Ohio State University/Ohio Agricultural Research and Development Center, Wooster, OH.



**Tuesday, February 10, 2009**  
**1:00 PM - 3:00 PM**  
**Posters, Group I - Session 4**  
**(Horticultural Crops)**

**Location:** Salons 2 & 3

56. **Sweet corn hybrid tolerance to experimental herbicides.** C. Boerboom\*,<sup>1</sup> R. Becker,<sup>2</sup> E. Peachey,<sup>3</sup> M. VanGessel<sup>4</sup>; <sup>1</sup>University of Wisconsin, Madison, WI, <sup>2</sup>University of Minnesota, St. Paul, MN, <sup>3</sup>Oregon State University, Corvallis, OR, <sup>4</sup>University of Delaware, Georgetown, DE.

57. **Weed control and sweet potato tolerance with V-10142.** D. Miller\*,<sup>1</sup> T. Smith,<sup>2</sup> M. Mathews<sup>1</sup>; <sup>1</sup>LSU AgCenter, St. Joseph, LA, <sup>2</sup>LSU AgCenter, Chase, LA.

58. **Herbicide and Cover Crop Residue Integration Affects on Weed Control, Quality, and Yield in Conservation Tillage Tomato.** M. Saini\*,<sup>1</sup> A. J. Price,<sup>2</sup> E. v. Santen,<sup>1</sup> J. S. Bergtold,<sup>3</sup> T. S. Kornecki,<sup>2</sup> K. S. Balkcom<sup>2</sup>; <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>USDA-ARS, Auburn, AL, <sup>3</sup>Kansas state University, Manhattan, KS.

59. **Efficacy of saflufenacil on different types of weeds in citrus.** M. Singh\*,<sup>1</sup> S. Singh,<sup>1</sup> S. D. Sharma<sup>2</sup>; <sup>1</sup>University of Florida, Citrus Research and Education Center, Lake Alfred, FL, <sup>2</sup>FMC Corporation, Philadelphia, PA.

60. **Tolerance of vegetable follow crops to pronamide use in lettuce.** P. J. Dittmar\*, D. W. Monks, K. M. Jennings; North Carolina State University, Raleigh, NC.

61. **Tolerance of rhubarb to quinclorac herbicide.** E. Peachey\*, R. McReynolds; Oregon State University, Corvallis, OR.

62. **Screening Pre and Postemergence Herbicides for use in Cilantro (*Coriandrum sativum*).** L. Brandenberger\*, L. Carrier, R. Havener, R. Adams; Oklahoma State University, Stillwater, OK.

63. **DMDS and the 3-WAY: Which is the better option for GA vegetable growers?** L. M. Sosnoskie\*, A. S. Culpepper; University of Georgia, Tifton, GA.

64. **Crop response to simulated carryover of mesotrione residues.** R. Riddle\*,<sup>1</sup> J. O'Sullivan,<sup>1</sup> C. Swanton<sup>2</sup>; <sup>1</sup>University of Guelph, Simcoe, ON, Canada, <sup>2</sup>University of Guelph, Guelph, ON, Canada.

65. **Residual Effects of Herbicides in Summer Crops to Cool-Season Vegetables.** E. L. Alcober\*,<sup>1</sup> N. Burgos,<sup>1</sup> V. Shivrain,<sup>1</sup> D. Motes,<sup>2</sup> M. Sales,<sup>1</sup> T. Tseng<sup>1</sup>; <sup>1</sup>University of

Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Alma, AR.

66. **Glyphosate and dicamba drift on commercial processing tomatoes.** M. M. Kruger\*,<sup>1</sup> G. R. Kruger,<sup>1</sup> W. G. Johnson,<sup>1</sup> D. Doohan,<sup>2</sup> T. A. Koch,<sup>2</sup> S. C. Weller<sup>1</sup>; <sup>1</sup>Purdue University, West Lafayette, IN, <sup>2</sup>The Ohio State University, Wooster, OH.

67. **Association of post and pre emergence herbicides as alternative control of glyphosate resistant *Conyza* spp in citrus.** M. Nicolai\*, P. J. Christoffoleti, V. C. Cardinali, S. J. Carvalho; University of Sao Paulo, Piracicaba, Brazil.

**Tuesday, February 10, 2009**

**8:00 AM - 10:00 AM**

**Posters, Group I - Session 5 (Physiology)**

**Location:** Salons 7 & 8

68. **Gene mutations which confer ALS resistance in Indiana horseweed (*Conyza canadensis*) populations.** G. R. Kruger\*,<sup>1</sup> V. M. Davis,<sup>1</sup> S. C. Weller,<sup>1</sup> P. J. Tranel,<sup>2</sup> W. G. Johnson<sup>1</sup>; <sup>1</sup>Purdue University, West Lafayette, IN, <sup>2</sup>University of Illinois, Urbana, IL.

69. **A W574L mutation in the ALS enzyme from *Bidens subalternans* from Brazil and consequences to the fitness of ALS-resistant and susceptible biotypes.** F. P. Lamego,<sup>1</sup> R. A. Vidal\*,<sup>1</sup> N. Burgos,<sup>2</sup> V. Shivrain,<sup>2</sup> M. Sales<sup>2</sup>; <sup>1</sup>UFRGS, Porto Alegre, Brazil, <sup>2</sup>Arkansas University, Fayetteville, AR.

70. ***psbA* mutation (Phe 255 to Ile) in *Capsella bursa-pastoris* confers resistance to triazinone herbicides.** A. Perez-Jones\*, S. Intanon, C. Mallory-Smith; Oregon State University, Corvallis, OR.

71. **Glyphosate-resistant Palmer amaranth from Mississippi.** V. Nandula\*,<sup>1</sup> R. Bond,<sup>1</sup> D. Poston,<sup>2</sup> C. Koger,<sup>1</sup> K. Reddy,<sup>3</sup> J. Bond<sup>1</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Pioneer Hi-Bred International, Inc, Stoneville, MS, <sup>3</sup>USDA-ARS, Stoneville, MS.

72. **Investigating resistance mechanism in glyphosate-resistant *Amaranthus*.** G. G. Light\*,<sup>1</sup> R. J. Wright,<sup>2</sup> A. S. Culpepper<sup>3</sup>; <sup>1</sup>Texas Tech University, Lubbock, TX, <sup>2</sup>Texas Tech University and Texas AgriLife Research, Lubbock, TX, <sup>3</sup>University of Georgia, Tifton, GA.

73. **Antagonism between glyphosate and glufosinate.** R. K. Bethke\*, C. Sprague, D. Penner; Michigan State University, East Lansing, MI.

74. **Glucosinolate Variation among Wild Radish (*Raphanus raphanistrum*) accessions.** M. S. Malik\*,<sup>1</sup> J. K. Norsworthy,<sup>2</sup> M. B. Riley,<sup>1</sup> P. Jha<sup>2</sup>; <sup>1</sup>Clemson University, Clemson, SC, <sup>2</sup>University of Arkansas, Fayetteville, AR.

75. **Physiological response of *Typha* spp. to drought and high water conditions in stormwater treatment areas.** K. M. Vollmer\*, G. MacDonald, J. Erickson, M. Gallo, B. Sellers; University of Florida, Gainesville, FL.

76. **Effect of water competition between *Zea mays* and *Sorghum halepense* on leaf gas exchange and competitive ability.** H. A. Acciaresi\*,<sup>1</sup> M. S. Zuluaga,<sup>2</sup> H. Chidichimo<sup>1</sup>; <sup>1</sup>Facultad Cs. Agr. y Ftiles (UNLP)-CIC, La Plata, Argentina, <sup>2</sup>Facultad Cs. Agr. y Ftiles (UNLP), La Plata, Argentina.

77. **Autophosphorylation Affects Protein Complex Formation and Activity of CDK-Activating Kinase (Ee;CDKF;1) in Leafy Spurge (*Euphorbia esula*).** W. S. Chao\*,<sup>1</sup> Y. Jia,<sup>2</sup> J. V. Anderson,<sup>1</sup>; <sup>1</sup>USDA-ARS, Fargo, ND, <sup>2</sup>Texas A & M University, Kingsville, TX.

78. **The Physiological Behavior of Aminocyclopyrachlor in Selected Invasive Weed Species.** J. Bell\*,<sup>1</sup> I. C. Burke,<sup>1</sup> T. S. Prather<sup>2</sup>; <sup>1</sup>Washington State University, Pullman, WA, <sup>2</sup>University of Idaho, Moscow, ID.

**Tuesday, February 10, 2009**

**10:00 AM - 12:00 PM**

**Posters, Group I - Session 6**

**(Integrated and Organic Weed Management)**

**Location:** Salons 7 & 8

79. **Intergration of Cultural Techniques for Weed Management of Winter Annuals in North Carolina.** S. B. Clewis\*, D. L. Jordan, R. J. Richardson; NC State University, Raleigh, NC.

80. **Predicting N and P fertilizer effects on weed species competitiveness with wheat.** R. E. Blackshaw\*, R. N. Brandt; Agriculture & Agri-Food Canada, Lethbridge, AB, Canada.

81. **Vegetation Control with Lime, Sodium Carbonate (Ash) and Imazapyr on Sandbars Along Missouri River.** S. Knezevic\*, A. Datta, J. Scott, C. Shapiro, M. Mainz; UNL, Concord, NE.

82. **Response of Pigweed and Foxtail Species to Broadcast Flaming.** S. Knezevic\*, S. Ulloa, A. Datta; UNL, Concord, NE.

83. **Response of Corn Types to Broadcast Flaming.** S. Knezevic\*,<sup>1</sup> S. Ulloa,<sup>1</sup> C. Bruening,<sup>2</sup> G. Gogos,<sup>1</sup> C. Costa,<sup>1</sup> S. Ulloa,<sup>1</sup> A. Ulloa<sup>1</sup>; <sup>1</sup>UNL, Concord, NE, <sup>2</sup>UNL, Lincoln, NE.

84. **Knowledge, Perception and Attitudes of Organic Farmers About Weed Control.** D. Doohan\*,<sup>1</sup> E. Canales,<sup>1</sup> J. Parker,<sup>2</sup> R. Wilson<sup>2</sup>; <sup>1</sup>The Ohio State University, Wooster, OH, <sup>2</sup>The Ohio State University, Columbus, OH.

85. **Mitigation of Purple Nutsedge Interference with Watermelon with Applications of Kelp (*Ascophyllum nodosum*) Extracts.** J. Morales-Payan\*; University of Puerto Rico-Mayaguez Campus, Mayaguez, PR.

86. **Organic weed control in certified organic watermelon production.** C. L. Webber\*,<sup>1</sup> A. R. Davis,<sup>1</sup> J. W. Shrefler<sup>2</sup>; <sup>1</sup>USDA, ARS, SCARL, Lane, OK, <sup>2</sup>OSU, Lane, OK.

87. **Rate-response of mustard and weeds to clove oil and vinegar across multiple states.** D. C. Brainard\*,<sup>1</sup> R. R. Bellinder,<sup>2</sup> W. S. Curran,<sup>3</sup> M. Ngouajio,<sup>1</sup> M. J. VanGessel,<sup>4</sup> M. J. Haar,<sup>5</sup> W. T. Lanini,<sup>6</sup> J. B. Masiunas<sup>7</sup>; <sup>1</sup>Michigan State University, East Lansing, MI, <sup>2</sup>Cornell University, Ithaca, NY, <sup>3</sup>The Pennsylvania State University, State College, PA, <sup>4</sup>University of Delaware, Newark, DE, <sup>5</sup>University of Minnesota, Lamberton, MN, <sup>6</sup>University of California Davis, Davis, CA, <sup>7</sup>University of Illinois, Urbana-Champaign, IL.

88. **Mustard meal as an organic herbicide.** C. L. Webber\*,<sup>1</sup> J. W. Shrefler,<sup>2</sup> R. A. Boydston<sup>3</sup>; <sup>1</sup>USDA, ARS, SCARL, Lane, OK, <sup>2</sup>OSU, Lane, OK, <sup>3</sup>USDA, ARS, Prosser, WA.

89. **Elucidation of Fertility and Mowing Height Practices on Weed Encroachment in Tall Fescue.** M. Cutulle\*, J. Derr, B. Horvath; Virginia Tech, Virginia Beach, VA.

90. **Genotypic and Cultural Weed Management Practices for Organic Peanut Production.** G. T. Place\*, D. L. Jordan, T. G. Isleib; North Carolina State University, Raleigh, NC.

**Tuesday, February 10, 2009**  
**1:00 PM - 3:00 PM**  
**Posters, Group I - Session 7**  
**(SWSS Ph.D. Poster Contest)**

**Location:** Salons 7 & 8

91. **Evaluation of preemergence herbicides for control of glyphosate-resistant Palmer amaranth in cotton.** J. R. Whitaker\*, A. C. York; North Carolina State University, Raleigh, NC.

92. **Evaluation of Selected Herbicides for Dallisgrass Control.** J. B. Willis\*, M. J. Goddard, J. Keating, S. D. Askew; Virginia Tech, Blacksburg, VA.
93. **The Economic Value of Implementing an on Farm Resistance Weed Management Strategy.** J. W. Weirich\*,<sup>1</sup> D. R. Shaw,<sup>1</sup> W. A. Givens,<sup>1</sup> J. A. Huff,<sup>1</sup> R. G. Wilson,<sup>2</sup> W. G. Johnson,<sup>3</sup> S. C. Weller,<sup>3</sup> M. D. Owen,<sup>4</sup> D. L. Jordan,<sup>5</sup> B. G. Young<sup>6</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>University of Nebraska, Scotts Bluff, NE, <sup>3</sup>Purdue, West Lafayette, IN, <sup>4</sup>Iowa State University, Ames, IA, <sup>5</sup>North Carolina State University, Raleigh, NC, <sup>6</sup>Southern Illinois University, Carbondale, IL.
94. **Influence of Herbicides Application Timings on Weed Populations in Winter Canola.** L. Paudel\*, U. R. Bishnoi; Alabama A&M University, Normal, AL.
95. **Saw palmetto control with triclopyr and metsulfuron spot treatments.** B. J. Fast\*,<sup>1</sup> J. A. Ferrell,<sup>1</sup> B. A. Sellers<sup>2</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>University of Florida, Ona, FL.
96. **Effects of Imazapic and Flazasulfuron on Dallisgrass in Bermudagrass Turf.** S. Wells\*, R. H. Walker, J. L. Belcher; Auburn University, Auburn University, AL.
97. **Long-term weed management results using conventional and Flex-cotton weed control systems.** E. W. Rounds\*,<sup>1</sup> C. Talley,<sup>1</sup> S. W. Murdock,<sup>2</sup> D. S. Murray<sup>1</sup>; <sup>1</sup>Oklahoma State University, Stillwater, OK, <sup>2</sup>Monsanto, St. Louis, MO.
98. **Winter Cover Residue Amount Affects Early Season Weed Biomass in a Conservation Tillage Corn and Cotton Rotation.** M. Saini\*,<sup>1</sup> A. J. Price,<sup>2</sup> E. v. Santen,<sup>1</sup> F. J. Arriaga,<sup>2</sup> K. S. Balkcom,<sup>2</sup> R. L. Raper<sup>2</sup>; <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>USDA-ARS, Auburn, AL.

**Wednesday, February 11, 2009**  
**8:00 AM - 10:00 AM**  
**Posters, Group I - Session 8**  
**(Row Crop Weed Control)**

**Location:** Salons 2 & 3

99. **Complementary Herbicide Programs for Palmer Amaranth (*Amaranthus palmeri* S. Wats.) Control in Glyphosate-Tolerant Cotton and Soybeans.** M. W. Marshall\*; Clemson University, Blackville, SC.
100. **Agronomic performance and herbicide efficacy in stacked glufosinate/glyphosate tolerant cotton.** P. A. Dotray\*,<sup>1</sup> J. W. Keeling,<sup>2</sup> W. R. Perkins,<sup>3</sup> C. G. Henniger,<sup>4</sup> L. V.

Gilbert<sup>2</sup>; <sup>1</sup>Texas Tech University, Texas AgriLife Research, and Texas AgriLife Extension Service, Lubbock, TX, <sup>2</sup>Texas AgriLife Research, Lubbock, TX, <sup>3</sup>Bayer CropScience, Idalou, TX, <sup>4</sup>Bayer CropScience, Lubbock, TX.

**101. Liberty link cotton tolerance to combinations of glufosinate with insecticides and mepiquat chloride.** D. Miller\*,<sup>1</sup> D. Stephenson,<sup>2</sup> D. Scroggs,<sup>2</sup> M. Mathews<sup>1</sup>; <sup>1</sup>LSU AgCenter, St. Joseph, LA, <sup>2</sup>LSU AgCenter, Alexandria, LA.

**102. Liberty link cotton tolerance to combinations of glufosinate and insecticides.** D. Miller\*,<sup>1</sup> D. Stephenson,<sup>2</sup> D. Scroggs,<sup>2</sup> M. Mathews<sup>1</sup>; <sup>1</sup>LSU AgCenter, St. Joseph, LA, <sup>2</sup>LSU AgCenter, Alexandria, LA.

**103. Tolerance of Glyphosate/Glufosinate Resistant Cotton to Topical Applications of Glyphosate and Glufosinate.** D. M. Dodds\*,<sup>1</sup> D. B. Reynolds,<sup>1</sup> L. T. Barber,<sup>2</sup> C. L. Main,<sup>3</sup> K. L. Smith<sup>4</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>University of Arkansas Extension Service, Little Rock, AR, <sup>3</sup>University of Tennessee, Knoxville, TN, <sup>4</sup>University of Arkansas Monticello, Fayetteville, AR.

**104. Effects of Herbicides, Strip-tillage, and Crop Stature on Kochia Interference in Sunflower.** B. L. Olson\*, P. W. Stahlman, P. W. Geier; Kansas State University, Manhattan, KS.

**105. Influence of glyphosate on Rhizoctonia crown and root rot in glyphosate resistant sugar beet.** K. A. Barnett\*, L. E. Hanson, C. L. Sprague; Michigan State University, East Lansing, MI.

**106. Response of dry bean to preplant-incorporated and preemergence applications of pyroxasulfone.** N. Soltani\*, C. Shropshire, P. H. Sikkema; University of Guelph, Ridgetown, ON, Canada.

**107. Row spacing influences yield and weed management in glyphosate-resistant sugar beet.** J. Q. Armstrong\*, C. L. Sprague; Michigan State University, East Lansing, MI.

**108. Tolerance of Soybean to Pre-plant Applications of Halosulfuron.** T. W. Dillon\*, N. D. Pearrow, R. C. Scott; University of Arkansas, Lonoke, AR.

**109. Winter Crops and Burn down Herbicide Management in No-till Transgenic Soybeans in Brazil.** D. L. Gazziero\*,<sup>1</sup> C. E. Prete<sup>2</sup>; <sup>1</sup>EMBRAPA SOJA, Londrina- Paraná, Brazil, <sup>2</sup>UEL, Londrina- Paraná, Brazil.

**110. Weed control in glyphosate-tolerant corn with glyphosate tankmixes.** P. H. Sikkema\*, C. Shropshire, N. Soltani; University of Guelph, Ridgetown, ON, Canada.

**Wednesday, February 11, 2009**  
**10:00 AM - 12:00 PM**  
**Posters, Group I - Session 9**  
**(Small Grain and Row Crop Weed Control)**

**Location:** Salons 7 & 8

**111. Wanted: Dead - Ryegrass and Brome in Pennsylvania Wheat Fields.** D. D. Lingenfelter\*, W. S. Curran; Penn State University, University Park, PA.

**112. Pyroxsulam for Weed Control in Southern Wheat.** N. D. PEARROW\*, B. M. Davis, R. C. Scott; University of Arkansas, Cooperative Extension Service, Lonoke, AR.

**113. Effect of nitrogen topdress application method on winter wheat growth and yield.** J. Edwards\*; Oklahoma State University, Stillwater, OK.

**114. Wheat Response to AEF130060 and Different Timings of Nitrogen Fertilizer.** J. R. Martin\*, C. R. Tutt, D. L. Call; University of Kentucky, Princeton, KY.

**115. Lolium perene management in wheat crop with clodinafop and iodosulfuron+mesosulfuron in Brazil.** R. A. Vidal\*, A. Kalsing; UFRGS, Porto Alegre, Brazil.

**116. Effect of light tillage on agronomic factors of a spring barley - hard white spring wheat rotation.** L. S. Sullivan\*,<sup>1</sup> F. L. Young,<sup>2</sup> J. C. Chee-Sanford,<sup>3</sup> R. Alldredge,<sup>1</sup> R. W. Smiley<sup>4</sup>; <sup>1</sup>Washington State University, Pullman, WA, <sup>2</sup>USDA-ARS, Pullman, WA, <sup>3</sup>USDA-ARS, Urbana, IL, <sup>4</sup>Oregon State University, Pendleton, OR.

**117. Tolerance of winter wheat to saflufenacil.** N. Soltani\*, C. Shropshire, P. H. Sikkema; University of Guelph, Ridgetown, ON, Canada.

**118. Effect of volunteer canola on barley productivity.** J. Lajeunesse\*, D. Pageau; Agriculture and Agri-Food Canada, Normandin, QC, Canada.

**119. Impact of volunteer oilseed flax on barley production.** D. Pageau\*, J. Lajeunesse; Agriculture and Agri-Food Canada, Normandin, QC, Canada.

**120. Interaction between preemergence herbicides and postemergence application timing in glyphosate-resistant corn.** M. M. Loux\*,<sup>1</sup> A. Dobbels,<sup>1</sup> W. Johnson,<sup>2</sup> B. Young<sup>3</sup>; <sup>1</sup>The Ohio State University, Columbus, OH, <sup>2</sup>Purdue University, West Lafayette, IN, <sup>3</sup>Southern Illinois University, Carbondale, IL.

121. **In-Crop and Fall-Applied Glyphosate Reduced Purple Nutsedge Density in No-till Glyphosate-Resistant Corn and Soybean.** K. N. Reddy\*, C. T. Bryson; USDA-ARS Southern Weed Science Research Unit, Stoneville, MS.

122. **Evaluation of Balance Flexx, Capreno, Corvus, and Laudis in Corn.** D. O. Stephenson\*, D. M. Scroggs; LSU AgCenter, Alexandria, LA.

**Wednesday, February 11, 2009**  
**1:00 PM - 3:00 PM**  
**Posters, Group II - Session 1**  
**(Cotton and Peanut Weed Control)**

**Location:** Salons 2 & 3

123. **Residual Effect of Primary Tillage on Weed Control and Cotton Yield.** M. G. Patterson\*,<sup>1</sup> C. D. Monks,<sup>1</sup> A. Price,<sup>2</sup> R. W. Goodman<sup>1</sup>; <sup>1</sup>Auburn University, Auburn University, AL, <sup>2</sup>USDA-ARS, Auburn University, AL.

124. **Effect of Tillage Systems, Row Spacings, and Herbicide Technologies on Plant Growth and Lint Yield of Cotton.** J. S. Aulakh\*,<sup>1</sup> A. J. Price,<sup>2</sup> K. S. Balkcom,<sup>2</sup> F. J. Arriaga,<sup>2</sup> D. P. Delaney<sup>1</sup>; <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>USDA-ARS, NSDL, Auburn Univ, Auburn, AL.

125. **Performance of Various winter cover crops and Their Affects on Weed Biomass and Yield When Used in Conservation-Tillage Corn-Cotton Rotation.** A. Folgart\*,<sup>1</sup> M. Saini,<sup>1</sup> A. J. Price,<sup>2</sup> E. van Santen<sup>1</sup>; <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>National Soil Dynamics Laboratory, Auburn, AL.

126. **Palmer Amaranth Control and Cotton Response to Early Preplant and Preemergence Applications of Residual Herbicides.** L. Steckel\*,<sup>1</sup> C. Main,<sup>1</sup> J. Holloway<sup>2</sup>; <sup>1</sup>University of Tennessee, Jackson, TN, <sup>2</sup>Syngenta Crop Protection, Jackson, TN.

127. **Palmer amaranth control in different cotton tillage systems.** L. V. Gilbert\*,<sup>1</sup> A. J. Bloodworth,<sup>2</sup> P. A. Dotray,<sup>3</sup> J. W. Keeling,<sup>1</sup> B. W. Bean<sup>4</sup>; <sup>1</sup>Texas AgriLife Research, Lubbock, TX, <sup>2</sup>Texas Tech University, Lubbock, TX, <sup>3</sup>Texas Tech University, Texas AgriLife Research, and Texas AgriLife Extension Service, Lubbock, TX, <sup>4</sup>Texas AgriLife Extension Service and Texas AgriLife Research, Amarillo, TX.

128. **Effect of Fomesafen on Glyphosate plus S-metolachlor Application Timing in Cotton.** D. O. Stephenson\*, D. M. Scroggs; LSU AgCenter, Alexandria, LA.



129. **Weed Control in LibertyLink and Roundup Ready Flex Cotton.** J. A. Bond\*,<sup>1</sup> D. M. Dodds,<sup>2</sup> D. B. Reynolds<sup>2</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Mississippi State University, Starkville, MS.

130. **Cotton tolerance and weed control with Staple LX and Dual Magnum combinations with glyphosate.** D. Miller\*,<sup>1</sup> D. Stephenson,<sup>2</sup> M. Mathews<sup>1</sup>; <sup>1</sup>LSU AgCenter, St. Joseph, LA, <sup>2</sup>LSU AgCenter, Alexandria, LA.

131. **Peanut performance and weed management in a high residue cover crop system.** J. A. Kelton\*,<sup>1</sup> A. J. Price,<sup>2</sup> K. S. Balkcom,<sup>2</sup> W. H. Faircloth,<sup>3</sup> D. Rowland<sup>3</sup>; <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>USDA-ARS National Soil Dynamics Laboratory, Auburn, AL, <sup>3</sup>USDA-ARS National Peanut Research Laboratory, Dawson, GA.

132. **The Impact of Peanut (*Arachis hypogaea*) Maturity Group on Injury and Yield from Postemergence Herbicide Applications.** J. A. Boyer\*,<sup>1</sup> G. MacDonald,<sup>1</sup> J. A. Ferrell,<sup>1</sup> B. L. Tillman,<sup>2</sup> B. J. Brecke<sup>3</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>North Florida Research and Education Center, Marianna, FL, <sup>3</sup>West Florida Research and Education Center, Milton, FL.

133. **Weed Control in Peanut with tank mixtures containing five components.** G. Chahal\*, D. L. Jordan, J. Burton, S. B. Clewis, R. L. Brandenburg, B. B. Shew; NC State University, Raleigh, NC.

134. **Peanut cultivar response to damage from Tobacco thrips and Paraquat injury.** W. Drake\*, D. L. Jordan, P. D. Johnson, B. R. Lassiter; NC State University, Raleigh, NC.

**Wednesday, February 11, 2009**

**1:00 PM - 3:30 PM**

**Posters, Group II - Session 2 (Rice Weed Control)**

**Location:** Salons 7 & 8

135. **Hybrid rice tolerance to imazethapyr as affected by planting date and soil characteristics.** E. R. Camargo\*,<sup>1</sup> G. N. McCauley,<sup>2</sup> S. A. Senseman,<sup>1</sup> J. Samford,<sup>2</sup> J. M. Chandler<sup>1</sup>; <sup>1</sup>Texas A&M University, Texas AgriLife Research, College Station, TX, <sup>2</sup>Texas AgriLife Research, Eagle Lake, TX.

136. **Hybrid rice tolerance to clomazone as affected by planting date and soil characteristics.** S. A. Senseman\*,<sup>1</sup> E. R. Camargo,<sup>1</sup> G. N. McCauley,<sup>2</sup> J. Samford,<sup>2</sup> J. M. Chandler<sup>1</sup>; <sup>1</sup>Texas A&M University, Texas AgriLife Research, College Station, TX, <sup>2</sup>Texas AgriLife Research, Eagle Lake, TX.

137. **Economics of Clearfield rice production.** T. P. Carlson\*, E. P. Webster, J. B. Hensley, S. L. Bottoms; LSU AgCenter, Baton Rouge, LA.
138. **Strada (orthosulfamuron) combinations for broad-spectrum weed control in Clearfield rice.** C. Leon\*; Isagro, Madison, MS.
139. **Effects of low Rates of Glyphosate and Glufosinate on Rice.** B. M. Davis\*,<sup>1</sup> R. C. Scott,<sup>1</sup> N. D. Pearrow,<sup>1</sup> J. K. Norsworthy<sup>2</sup>; <sup>1</sup>University of Arkansas, Cooperative Extension Service, Lonoke, AR, <sup>2</sup>University of Arkansas, Fayetteville, AR.
140. **Dietholate allows to increase the clomazone rate in rice crop accordingly the soil type.** L. A. de Avila\*,<sup>1</sup> D. M. Sanchotene,<sup>1</sup> N. D. Kruse,<sup>1</sup> S. L. Machado,<sup>1</sup> M. M. Trezzi,<sup>2</sup> G. A. Nicolodi<sup>1</sup>; <sup>1</sup>University Federal of Santa Maria - UFSM, Santa Maria, Brazil, <sup>2</sup>University Technological Federal of Parana - UFSM, Pato Branco, Brazil.
141. **Effect of Postflood Timing and Single Versus Sequential Clincher Applications on Barnyardgrass Control in Rice.** J. A. Still\*, J. K. Norsworthy, S. Bangarwa, M. J. Wilson, G. M. Griffith, R. C. Scott, L. E. Estorninos; University of Arkansas, Fayetteville, AR.
142. **High residue winter cover crops deplete winter annual weed seed across a landscape in a long-term tillage study.** J. A. Kelton\*,<sup>1</sup> E. van Santen,<sup>1</sup> J. N. Shaw,<sup>1</sup> A. J. Price,<sup>2</sup> F. J. Arriaga,<sup>2</sup> K. S. Balkcom,<sup>2</sup> R. L. Raper,<sup>2</sup> D. W. Reeves<sup>3</sup>; <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>USDA-ARS National Soil Dynamics Laboratory, Auburn, AL, <sup>3</sup>USDA-ARS J. Phil Campbell Sr. Natural Resource Conservation Center, Watkinsville, GA.
143. **Do Weed-Suppressive Rice Lines Maintain Weed Control at Reduced Planting Densities?** D. R. Gealy\*,<sup>1</sup> W. Yan<sup>2</sup>; <sup>1</sup>USDA-ARS, Stuttgart, AR, <sup>2</sup>USDA-ARS, DBNRRRC, Stuttgart, AR.
144. **Broadleaf weed control on Arkansas rice levees.** S. K. Bangarwa\*, J. K. Norsworthy, R. C. Scott, J. Still, M. J. Wilson, G. M. Griffith, L. E. Estorninos; University of Arkansas, Fayetteville, AR.
145. **Use of RicePyr for Broadleaf Weed Control on Rice Levees.** M. J. Wilson\*, J. K. Norsworthy, S. Bangarwa, G. Griffith, J. Still, R. Scott; University of Arkansas, Fayetteville, AR.

146. **Impact of summer rainfall to weed infestation of rainy season rice under different management practices in West Bengal, India.** G. Saha\*, K. Brahmachari, R. Kundu; Bidhan Chandra Krishi Viswavidyalaya, Kolkata, India, India.

**Thursday, February 12, 2009**  
**8:00 AM - 10:00 AM**  
**Posters, Group II - Session 3**  
**(Pasture and Rangeland Weed Control)**

**Location:** Salons 2 & 3

147. **Bermudagrass tolerance and weed control in pastures with combinations of nicosulfuron and metsulfuron.** E. K. Kraka\*, J. D. Byrd, J. M. Taylor; Mississippi State University, Mississippi State, MS.

148. **Perennial pepperweed response to sheep grazing.** J. E. Creech\*, J. C. Davison; University of Nevada Cooperative Extension, Fallon, NV.

149. **Selective burndown of common milkweed (*Asclepias syriaca*) and hemp dogbane (*Apocynum cannabinum*) in a legume-rich tall fescue (*Festuca arundinacea*) hayfield.** R. S. Chandran\*; West Virginia University, Morgantown, WV.

150. **Fall over-seeding cool-season grasses into warm-season pasture suppresses spring weeds.** P. W. Bartholomew, R. D. Williams\*; USDA-ARS-GRL, Langston University, OK.

151. **Utility of Saflufenacil for Broadleaf Weed Control in Non-Crop Use Patterns.** J. Zawierucha\*, G. Oliver, J. O'Barr, L. Charvat, B. Guice, L. Newsom, C. Youmans, W. Thomas, S. Willingham; BASF Corporation, Research Triangle Park, NC.

152. **Tall fescue seed head suppression with metsulfuron plus aminopyralid.** W. W. Witt\*; University of Kentucky, Lexington, KY.

153. **Native Grass Tolerance to Aminopyralid and DPX-KJM44.** J. D. Vassios, C. Douglass, M. Bridges, B. Lindenmayer\*, S. Nissen; Colorado State University, Fort Collins, CO.

154. **Long-Term Response of African Rue (*Peganum harmala*) and Associated Vegetation to Herbicides.** T. M. Sterling\*, L. B. Abbott, N. Klypina, K. S. Branum; New Mexico State University, Las Cruces, NM.

155. **Kudzu suppression by herbicides in two-year field trials.** M. A. Weaver\*, M. E. Lyn, C. D. Boyette, R. E. Hoagland; USDA ARS, Stoneville, MS.

156. **Mahogany (*Swietenia macrophylla*) and weed response to soil applied herbicides.** F. Rivas\*, E. Diaz, J. Castillo, L. Ortega; INIFAP, Merida, Mexico.
157. **Field Sandbur Control and Herbicide Injury in Common Bermudagrass Pastures.** A. N. Brewster\*, D. S. Murray, N. C. Talley; Oklahoma State University, Stillwater, OK.
158. **First year evaluation of a methyl bromide alternatives sustainability trial conducted in central Florida.** A. W. MacRae\*, R. O. Kelly; University of Florida, Wimauma, FL.

**Thursday, February 12, 2009**  
**10:00 AM - 12:00 PM**  
**Posters, Group II - Session 4**  
**(Biological Weed Control)**

**Location:** Salons 2 & 3

159. **Pathogenic Mechanisms of Vulclic Acid Produced by *Nimbya alternantherae*.** M. Xiang\*,<sup>1</sup> L. Fan,<sup>1</sup> Z. Jiang,<sup>2</sup> Y. Zeng<sup>1</sup>; <sup>1</sup>Zhongkai University of Agriculture and Engineering, Guangzhou, China, <sup>2</sup>South China Agricultural University, Guangzhou, China.

160. **The presence of eriophyid mites on native and weed *Cirsium* species in North America.** R. Hansen,<sup>1</sup> R. Ochoa,<sup>2</sup> G. Bauchan,<sup>3</sup> J. Amrine,<sup>4</sup> M. Lekveishvili,<sup>5</sup> J. D. Wells,<sup>5</sup> G. J. Michels,<sup>6</sup> R. Petanovic,<sup>7</sup> J. Lydon\*<sup>8</sup>; <sup>1</sup>USDA-APHIS-PPQ-CPHST, National Weed Management Laboratory, Fort Collins, CO, <sup>2</sup>USDA/ARS/Systematic Entomology Lab, Beltsville, MD, <sup>3</sup>USDA/ARS/Soybean Genomics & Improvement Lab, Beltsville, MD, <sup>4</sup>Division of Plant & Soil Sciences, West Virginia Univ., Morgantown, WV, <sup>5</sup>Dept. of Biology, West Virginia Univ., Morgantown, WV, <sup>6</sup>Texas A&M Univ. Agricultural Research and Extension Center, Bushland, TX, <sup>7</sup>Institute for Plant and Food Protection, Dept. of Entomology, Univ. of Belgrade, Belgrade, Serbia, <sup>8</sup>USDA/ARS/Sustainable Agricultural Systems Lab, Beltsville, MD.

161. **Soil incorporation of sicklepod seeds infected with *Alternaria cassiae* and its effects on this weed control.** R. A. Pitelli\*,<sup>1</sup> R. L. Pitelli,<sup>2</sup> F. d. Simoni,<sup>1</sup> F. M. Claudia<sup>1</sup>; <sup>1</sup>University of State of Sao Paulo, Jaboticabal, Brazil, <sup>2</sup>OuroFino Química Ltda, Ribeirão Preto, Brazil.

162. **Surfactants affect the efficacy of *Alternaria cassiae* controlling sicklepod seeds.** C. F. Franco, F. M. Claudia; University of State of Sao Paulo, Jaboticabal, Brazil.

163. **Drying and formulation of *Mycoleptodiscus terrestris*: a microbial bioherbicide of *Hydrilla verticillata*.** C. Dunlap\*, M. Jackson; NCAUR, Peoria, IL.
164. **Infection and control of Hemp Sesbania (*Sesbania exaltata*) by *Colletotrichum gloeosporioides* f.sp. *aeschynomene* formulated in an Invert Emulsion.** C. D. Boyette\*, A. J. Bowling, K. C. Vaughn, R. E. Hoagland, K. C. Stetina; USDA-ARS, Stoneville, MS.
165. **Performance of two biological control agents on susceptible and fluridone-resistant genotypes of the aquatic weed hydrilla, *Hydrilla verticillata*.** T. A. Schmid\*, J. P. Cuda, G. E. MacDonald, J. L. Gillmore; University of Florida, Gainesville, FL.
166. **Effects of biological control agents on chemical control of waterhyacinth (*Eichhornia crassipes*) with penoxsulam, glyphosate and triclopyr in field tanks.** P. J. Moran\*; USDA-ARS, Weslaco, TX.
167. **Mode of Action of the Mycoherbicide *Fusarium oxysporum* f. sp. *strigae* ‘Foxy 2’ on *Striga hermonthica*: an Anatomical Study.** B. Ndambi, A. Heller, A. Elzein\*, M. De Mol, G. Cadisch; University of Hohenheim, Stuttgart, Germany.
168. **Comparison of Fallow Tillage Systems in Pacific Northwest Environments.** D. S. Riar\*,<sup>1</sup> J. P. Yenish,<sup>1</sup> D. A. Ball<sup>2</sup>; <sup>1</sup>washington state university, pullman, WA, <sup>2</sup>Oregon state university, Pendleton, OR.
169. **Factors influencing seed caching by the earthworm, *Lumbricus terrestris*.** E. Regnier\*,<sup>1</sup> K. Harrison,<sup>1</sup> N. Arancon,<sup>2</sup> C. Edwards,<sup>1</sup> R. Venkatesh<sup>1</sup>; <sup>1</sup>Ohio State University, Columbus, OH, <sup>2</sup>University of Hawaii, Hilo, HI.

**Thursday, February 12, 2009  
1:00 PM - 3:00 PM  
Posters, Group II - Session 5  
(Formulations and Interactions)**

**Location:** Salons 2 & 3

170. **Enhancing cogongrass efficacy with innovative spray technology; magnetic, air-assist backpack blower versus conventional backpack boom sprayer.** C. L. Ramsey\*,<sup>1</sup> R. A. Williams<sup>2</sup>; <sup>1</sup>USDA-APHIS, Fort Collins, CO, <sup>2</sup>Univ. of Florida, Milton, FL.
171. **The response of Wild oat (*Avena fatua*) to different herbicides solution.** A. Mousavi Nik\*,<sup>1</sup> M. Mollaei Kande-

lous,<sup>2</sup> E. Zand,<sup>1</sup> A. Abas Nejad,<sup>1</sup> N. Hosseyni Faradonbe<sup>3</sup>;  
<sup>1</sup>Department of Weed Research, Plant Protection Research  
Institute, Tehran, Iran, Islamic Republic of, <sup>2</sup>University of  
Tehran, Tehran, Iran, Islamic Republic of, <sup>3</sup>Birjand Univ.  
Iran, Birjand, Iran, Islamic Republic of.

**172. Teaching old dogs new tricks: Enhanced diquat gramini-  
cide effect on *Lolium* and *Avena* species using tank-mixed  
adjuvants.** M. Fernandez-Cerejido, F. Bastida, J. Menen-  
dez\*; Universidad de Huelva, Palos de la Frontera, Spain.

**173. Effect of adjuvants on rainfastness of different  
glyphosate formulations.** S. Singh\*,<sup>1</sup> M. Singh,<sup>1</sup> S. D.  
Sharma<sup>2</sup>; <sup>1</sup>University of Florida, Citrus Research and  
Education Center, Lake Alfred, FL, <sup>2</sup>FMC Corporation,  
Philadelphia, PA.

**174. Using Shikimic Acid as a Tool for Surfactant Evaluation.**  
C. A. Massey\*,<sup>1</sup> D. R. Shaw,<sup>1</sup> J. A. Huff,<sup>1</sup> J. W. Weirich,<sup>1</sup>  
M. B. Wixson<sup>2</sup>; <sup>1</sup>Mississippi State University, Mississippi  
State Mississippi, MS, <sup>2</sup>Helm Agro, Memphis, TN.

**175. Tembotrione Efficacy as Influenced by Adjuvant Class  
and Products Within a Class.** M. Bernards\*,<sup>1</sup> R. Zollinger,<sup>2</sup>  
B. Young<sup>3</sup>; <sup>1</sup>University of Nebraska-Lincoln, Lincoln, NE,  
<sup>2</sup>North Dakota State University, Fargo, ND, <sup>3</sup>Southern  
Illinois University-Carbondale, Carbondale, IL.

**176. New tank-mixed adjuvant solutions to improve nicosul-  
furon dry flowable formulations.** D. Camacho, F. Bastida, J.  
Menendez\*; Universidad de Huelva, Palos de la Frontera,  
Spain.

**177. The influence of different surfactants on DPX-KJM-44  
and DPX-MAT-28 absorption in Canada thistle (*Cirsium  
arvense*).** B. Bukun\*,<sup>1</sup> S. J. Nissen,<sup>1</sup> R. Lindenmayer,<sup>1</sup> D.  
Shaner,<sup>2</sup> G. Brunk,<sup>1</sup> P. Westra<sup>1</sup>; <sup>1</sup>Colorado State Univer-  
sity, Fort Collins, CO, <sup>2</sup>USDA-ARS, Fort Collins, CO.

**178. Lecithin and alkyl polysaccharide-based adjuvants as new  
tools to increase glyphosate activity: differential effect on two  
*Conyza* species.** M. Fernandez-Cerejido, F. Bastida, J. Me-  
nendez\*; Universidad de Huelva, Palos de la Frontera,  
Spain.

**179. Saflufenacil: A new herbicide for preplant burndown and  
preemergence dicot weed control.** S. Bowe\*,<sup>1</sup> W. Patzoldt,<sup>1</sup>  
T. Holt,<sup>1</sup> R. Liebl,<sup>1</sup> H. Walter,<sup>2</sup> B. Sievernich<sup>2</sup>; <sup>1</sup>BASF,  
RTP, NC, <sup>2</sup>BASF, Limburgerhof, Germany.

**180. Chlorpyrifos Interactions with ALS-Inhibiting Herbi-  
cides in Soybean.** G. E. Powell\*, C. L. Sprague, M. R.  
Jewett, C. D. DiFonzo; Michigan State University, East  
Lansing, MI.

181. **Granular applications of trifloxysulfuron for weed control in bermudagrass turfgrass.** J. M. Taylor\*, J. D. Byrd; Mississippi State University, Mississippi State, MS.

**Thursday, February 12, 2009**  
**8:00 AM - 10:00 AM**  
**Posters, Group II - Session 6**  
**(Pasture and Wildland Weed Control)**

**Location:** Salons 7 & 8

182. **Relative salinity tolerance of foxtail barley (*Hordeum jubatum*) and desirable pasture grasses.** K. R. Israelsen\*,<sup>1</sup> C. V. Ransom,<sup>1</sup> B. L. Waldron<sup>2</sup>; <sup>1</sup>Utah State University, Logan, UT, <sup>2</sup>USDA-ARS Forage and Range Research Unit, Logan, UT.

183. **The giant salvinia eradication program in North Carolina.** S. L. True\*,<sup>1</sup> R. J. Richardson,<sup>1</sup> W. Batten,<sup>1</sup> R. Iverson,<sup>2</sup> R. Emens,<sup>3</sup> M. Heilman<sup>4</sup>; <sup>1</sup>North Carolina State Univ., Raleigh, NC, <sup>2</sup>North Carolina Dept. Agric., Raleigh, NC, <sup>3</sup>North Carolina Dept. Env. Health and Natural Resources, Raleigh, NC, <sup>4</sup>SePRO Corporation, Whitakers, NC.

184. **A risk assessment for *Cayratia japonica*.** A. M. West\*, R. J. Richardson; North Carolina State Univ., Raleigh, NC.

185. **Impacts of several herbicides on pale swallow-wort (*Cynanchum rossicum*) and other vegetation.** T. L. Mervosh\*,<sup>1</sup> C. Boettner<sup>2</sup>; <sup>1</sup>Connecticut Agricultural Experiment Station, Windsor, CT, <sup>2</sup>U.S. Fish and Wildlife Service, Sunderland, MA.

186. **Beach Vitex (*Vitex rotundifolia*) Soil Seed Bank Characterization.** T. Whitwell\*, M. M. Cousins, J. A. Briggs; Clemson University, Clemson, SC.

187. **Investigations Into Mechanisms of Cogongrass (*Imperata cylindrica*) Competition and Rhizome Dormancy.** G. MacDonald\*, J. A. Ferrell; University of Florida, Gainesville, FL.

188. **Common Reed: *Phragmites australis* (CAV.) Trin. Ex Steud: Life History in the Mobile River Delta, Alabama.** J. C. Cheshier\*, J. D. Madsen; Mississippi State University, Mississippi State, MS.

189. **Soft Rush (*Juncus effusus*) Control in Pastures.** N. Rana\*,<sup>1</sup> B. A. Sellers,<sup>2</sup> J. Ferrell<sup>1</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>University of Florida, Ona, FL.

190. **Tall Ironweed and Canada Thistle Control with Rope-Wick and Broadcast Treatments.** D. M. Fryman\*, W. W.

Witt, J. A. Tolson; University of Kentucky, Lexington, KY.

191. **Response of Russian knapweed (*Acroptilon repens*) and perennial pepperweed (*Lepidium latifolium*) to summer and fall herbicide applications.** C. V. Ransom\*, S. A. Dewey; Utah State University, Logan, UT.

192. **Factors Affecting Natalgrass (*Melinis repens*) Seed Germination.** C. A. Stokes\*, G. MacDonald, C. Reinhardt-Adams; University of Florida, Gainesville, FL.

193. **Leafy Spurge Control with Different Tank-mixes of Imazapic and BAS 800H.** S. Knezevic\*,<sup>1</sup> R. Rapp,<sup>1</sup> A. Datta,<sup>1</sup> J. Scott,<sup>1</sup> L. Charvat,<sup>2</sup> J. Zawierucha<sup>3</sup>; <sup>1</sup>UNL, Concord, NE, <sup>2</sup>BASF Corporation, Lincoln, NE, <sup>3</sup>BASF Corporation, Religh, NC.

**Thursday, February 12, 2009**  
**10:00 AM - 12:00 PM**  
**Posters, Group II - Session 7**  
**(Soil, Climate, and Weed Biology)**

**Location:** Salons 7 & 8

194. **Enhanced Atrazine Degradation: A Survey of Crop Fields in North-Eastern Colorado.** R. Khosla\*,<sup>1</sup> D. Shaner,<sup>2</sup> B. Bosley,<sup>3</sup> A. Helm<sup>3</sup>; <sup>1</sup>Colorado State University, Fort Collins, CO, <sup>2</sup>USDA-ARS Water Management Unit, Fort Collins, CO, <sup>3</sup>Cooperative Extension Colorado State University, Fort Collins, CO.

195. **Effect of cropping pattern and crop residue on herbicide binding to soil.** D. Shaner\*,<sup>1</sup> N. Hansen,<sup>2</sup> L. Wiles<sup>1</sup>; <sup>1</sup>USDA-ARS, Fort Collins, CO, <sup>2</sup>Colorado State University, Fort Collins, CO.

196. **Soil Applied Herbicides and Mycorrhizal Colonization.** U. Puczel,<sup>1</sup> M. K. Upadhyaya\*<sup>2</sup>; <sup>1</sup>University of Warmia and Mazury in Olsztyn, Olsztyn, Poland, <sup>2</sup>University of British Columbia, Vancouver, BC, Canada.

197. **Economic vis-à-vis microbiological impact assessment of different weed management practices in rice-rice cropping system in new alluvial soil of West Bengal.** K. Brahmachari\*, R. Kundu, G. Saha; Bidhan Chandra Agril. Univ., Kalyani, India.

198. **Assessment of inheritance and stability of glyphosate-resistance in Palmer amaranth (*Amaranthus palmeri*).** D. N. Ribeiro\*,<sup>1</sup> D. Shaw,<sup>1</sup> B. Baldwin,<sup>1</sup> J. A. Huff,<sup>1</sup> S. Duke,<sup>2</sup> V. K. Nandula<sup>3</sup>; <sup>1</sup>Mississippi State University, Starkville, MS,



<sup>2</sup>USDA/ARS, Oxford, MS, <sup>3</sup>Delta Research and Extension Center, Stoneville, MS.

199. **Genetic load and competition effects resulting from transgene flow from canola to field mustard.** C. N. Stewart\*; University of Tennessee, Knoxville, TN.

200. **Outcrossing Interactions of Early-Flowering Strawhull and Late-Flowering Blackhull Red Rice with Commercial Rice Varieties.** D. R. Gealy\*; USDA-ARS, Stuttgart, AR.

201. **Genotypic Composition of Volunteer Canola (*Brassica napus* L.) in Western Canada and Potential Impact on Gene Flow.** B. T. Sable\*,<sup>1</sup> R. Van Acker,<sup>2</sup> R. H. Gulden<sup>1</sup>; <sup>1</sup>University of Manitoba, Winnipeg, MB, Canada, <sup>2</sup>University of Guelph, Guelph, ON, Canada.

202. **Maternal and Hormonal Regulation of Seed Dormancy in Palmer Amaranth.** P. Jha\*, J. K. Norsworthy; University of Arkansas, Fayetteville, AR.

203. **Maintaining The Isogenic North American *Striga asiatica*.** C. L. Brommer\*,<sup>1</sup> A. Palmer,<sup>2</sup> Y. Liu,<sup>1</sup> N. Kinger,<sup>1</sup> M. Chen,<sup>1</sup> D. G. Lynn<sup>1</sup>; <sup>1</sup>Emory University, Atlanta, GA, <sup>2</sup>University of Wisconsin, Madison, WI.

204. **Establishment capabilities of alfalfa (*Medicago sativa* L.) sown in a grass sward subjected to different disturbances.** M. V. Bagavathiannan\*,<sup>1</sup> R. H. Gulden,<sup>1</sup> R. C. Van Acker<sup>2</sup>; <sup>1</sup>University of Manitoba, Winnipeg, MB, Canada, <sup>2</sup>University of Guelph, Guelph, ON, Canada.

**Thursday, February 12, 2009**  
**1:00 PM - 3:00 PM**  
**Posters, Group II - Session 8**  
**(Turf and Ornamental Weed Control)**

**Location:** Salons 7 & 8

205. **Timing of Sulfentrazone plus Proflumicafone for Crabgrass Control in Perennial Ryegrass and Kentucky Bluegrass.** T. L. Mittlesteadt\*, S. D. Askew; Virginia Tech, Blacksburg, VA.

206. **Herbicide options for Star-of-Bethlehem (*Ornithogalum umbellatum*) control.** G. K. Breeden\*, J. T. Brosnan; University of Tennessee, Knoxville, TN.

207. **Control of Sedges in Turfgrass with Imazethapyr and Sulfentrazone Compared to Industry Standards.** J. Rose\*, S. McElroy; Auburn Univ., Auburn, AL.

208. **Annual weed control with amicarbazone and flucarbazone in warm-season turf.** J. Belcher\*, R. Walker; Auburn University, Auburn University, AL.

209. **Evaluation of Flurprimidol plus Trinexapac-ethyl Pre-Mix on 'Meyer' Zoysiagrass.** W. Totten\*; University of Tennessee at Martin, Martin, TN.
210. **Annual bluegrass control with amicarbazone in perennial ryegrass overseed.** R. H. Walker\*, J. L. Belcher; Auburn University, Auburn University, AL.
211. **Irrigation affects shrub canopy retention of pendimethalin.** J. Altland\*; USDA/ARS, Wooster, OH.
212. **Tolerance of Evening Primrose (*Oenothera elata* Kunth) Transplants to Preemergence Herbicides.** G. M. Henry\*, A. N. Bates, C. B. McKenney; Texas Tech University, Lubbock, TX.
213. **Herbicidal Activity Of MRC-01 On *Poa annua*.** K. Hwang, S. Koo\*; Moghu Research Center Ltd., Daejeon, Republic of Korea.
214. **Effect of preemergence herbicides on bermudagrass root architecture.** J. Nettles,<sup>1</sup> G. Munshaw,<sup>1</sup> S. M. Borst\*,<sup>2</sup> R. Strahan,<sup>2</sup> J. Beasley<sup>2</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>LSU Ag Center, Baton Rouge, LA.
215. **Growth Regulation of Patriot Bermudagrass with T-Nex and Break-Thru Combinations.** J. L. Jester\*, J. B. Willis, S. D. Askew; Virginia Tech, Blacksburg, VA.
216. **Postemergence Control of Puncturevine (*Tribulus cistoides* L.) in Bermudagrass.** G. M. Henry\*, T. Williams; Texas Tech University, Lubbock, TX.

**Friday, February 13, 2009**

**8:00 AM - 10:00 AM**

**Posters, Group II - Session 09 (Integrated Weed Management, Teaching, and Surveys)**

**Location:** Salon 2

217. **Performance consistency of reduced atrazine use in morphologically divergent sweet corn hybrids.** M. M. Williams\*,<sup>1</sup> R. A. Boydston,<sup>2</sup> R. E. Peachey,<sup>3</sup> D. E. Robinson<sup>4</sup>; <sup>1</sup>USDA-ARS, Urbana, IL, <sup>2</sup>USDA-ARS, Prosser, WA, <sup>3</sup>Oregon State University, Corvallis, OR, <sup>4</sup>University of Guelph, Ridgetown, ON, Canada.
218. **Are there more weeds on the corn row?** L. Longchamps\*,<sup>1</sup> B. Panneton,<sup>2</sup> M. Brouillard,<sup>2</sup> M. Simard,<sup>3</sup> G. D. Leroux<sup>1</sup>; <sup>1</sup>Laval University, Quebec, QC, Canada, <sup>2</sup>Agriculture and Agrifood Canada, St-Jean-sur-Richelieu, QC, Canada, <sup>3</sup>Agriculture and Agrifood Canada, Quebec, QC, Canada.

219. **Survey of Weed Seed Contamination Present in Grain Sown in the Western Australian Wheatbelt and their Herbicide Resistance Status.** P. Michael\*,<sup>1</sup> M. K. Owen,<sup>2</sup> S. B. Powles<sup>2</sup>; <sup>1</sup>Curtin University of Technology, Perth, Australia, <sup>2</sup>University of Western Australia, Perth, Australia.

220. **Purple nutsedge (*Cyperus rotundus*) and yellow nutsedge (*C. esculentus*) management in irrigated systems infested with southern root-knot nematode (*Meloidogyne incognita*).** J. Schroeder\*,<sup>1</sup> S. H. Thomas,<sup>1</sup> L. W. Murray,<sup>2</sup> C. Fiore,<sup>1</sup> J. Trojan,<sup>1</sup> J. Libbin<sup>1</sup>; <sup>1</sup>New Mexico State University, Las Cruces, NM, <sup>2</sup>Kansas State University, Manhattan, KS.

221. **Evolution of resistant *Echinochloa spp.* in California rice.** C. E. Marchesi\*, C. A. Greer, J. E. Hill, M. A. Jasieniuk, M. Canevari, R. G. Mutters, R. E. Plant, J. Eckert, A. J. Fischer; University of California, Davis, Davis, CA.

222. **Interception and identification of Federal Noxious Weeds at U.S. Ports of Entry, 2007–2008.** M. L. Smither-Kopperl\*,<sup>1</sup> I. Singh<sup>2</sup>; <sup>1</sup>USDA-APHIS-PPQ, SeaTac, WA, <sup>2</sup>USDA-APHIS-PPQ, Riverdale, MD.

223. **Weeds Of The South - A New Weed Identification Book For The Southern United States.** M. S. DeFelice\*; Pioneer Hi-Bred, Johnston, IA.

224. **Integrated Weed Management: “Fine Tuning the System...”.** E. C. Taylor\*, K. A. Renner, C. L. Sprague; Michigan State University, East Lansing, MI.

225. **Observations of Undergraduate Weed Science Term Papers.** B. J. Lowry\*, R. E. Whitesides, S. A. Dewey, C. V. Ransom; Utah State University, Logan, UT.

226. **Northeastern Weed Science Society Noxious and Invasive Vegetation Short Course, September 15–18, 2008.** M. A. Bravo\*,<sup>1</sup> W. S. Curran<sup>2</sup>; <sup>1</sup>Penn State University/Penn Dept of Agriculture, Harrisburg, PA, <sup>2</sup>Penn State University, University Park, PA.

227. **Innovative concepts for the creation of an interactive invasive weed pocket guide.** R. E. Koepke-Hill\*,<sup>1</sup> G. R. Armel,<sup>1</sup> G. N. Rhodes,<sup>1</sup> R. J. Richardson<sup>2</sup>; <sup>1</sup>University of Tennessee, Knoxville, TN, <sup>2</sup>North Carolina State University, Raleigh, NC.

228. **International Survey of Herbicide-Resistant Weeds. I.** Heap\*; WeedSmart, Corvallis, OR.

**Friday, February 13, 2009**  
**10:00 AM - 12:00 PM**  
**Posters, Group II - Session 10**  
**(Weed Resistance and Management)**

**Location:** Salon 2

229. **Documentation of ACCase and ALS resistant Italian Ryegrass biotypes in North Carolina.** A. Chandi\*, A. C. York, D. L. Jordan; NC State University, Raleigh, NC.

230. **Confirmation and Management of Clomazone-Resistant Barnyardgrass in Rice.** J. K. Norsworthy\*, R. Scott, K. Smith, J. Still, L. Estorninos, Jr., S. Bangarwa; University of Arkansas, Fayetteville, AR.

231. **Quinclorac Resistance in California's Late Watergrass (*Echinochloa phyllopogon* (Stapf) Koss.).** M. Milan\*,<sup>1</sup> H. Yasuor,<sup>2</sup> J. W. Eckert,<sup>2</sup> A. J. Fischer<sup>2</sup>; <sup>1</sup>University Of Turin, Grugliasco, Italy, <sup>2</sup>University of California, Davis, CA.

232. **Glyphosate-Resistant Horseweed (*Conyza canadensis*) Control with Preplant Applications of BAS800H.** V. M. Davis\*,<sup>1</sup> G. R. Kruger,<sup>1</sup> B. G. Young,<sup>2</sup> S. Z. Knezevic,<sup>3</sup> W. G. Johnson<sup>1</sup>; <sup>1</sup>Purdue University, West Lafayette, IN, <sup>2</sup>Southern Illinois University, Carbondale, IL, <sup>3</sup>University of Nebraska, Nebraska, NE.

233. **Phenotypic expression of selected Palmer amaranth biotypes resistant to glyphosate.** A. Chandi\*, D. L. Jordan, J. Burton, A. York, S. Clewis; NC State University, Raleigh, NC.

234. **Herbicide associations for management of glyphosate resistant and tolerant weeds.** R. A. Vidal\*,<sup>1</sup> H. P. Rainero<sup>2</sup>; <sup>1</sup>UFRGS, Porto Alegre, Brazil, <sup>2</sup>INTA, Manfredi, Argentina.

235. **Research and development in Monsanto Global Bio-evaluation.** D. Sanyal\*, B. Krebel, S. Prosch, M. Bugg, F. Kohn, D. Sammons, S. Schrader, D. Edgecomb, M. South, B. Bussler; Monsanto Company, St. Louis, MO.

236. ***Digitaria insularis*: a new Glyphosate resistant weed in Brazil.** F. S. Adegas\*; Embrapa Soja, Londrina, Brazil.

237. **Response of Virginia Collections of Common Chickweed (*Stellaria media*) to Sulfonylurea Herbicides.** E. S. Haggood\*,<sup>1</sup> D. D. Ganske,<sup>2</sup> G. A. Hite<sup>3</sup>; <sup>1</sup>Virginia Tech, Blacksburg, VA, <sup>2</sup>DuPont Agricultural Enterprise, Winchester, VA, <sup>3</sup>Virginia Tech, Halifax, VA.

238. **Resistant Weed Management Using Dicamba Tolerant Soybean.** S. K. Carter\*,<sup>1</sup> C. H. Slack,<sup>1</sup> G. P. Murphy<sup>2</sup>; <sup>1</sup>University of Kentucky, Lexington, KY, <sup>2</sup>The Monsanto Company, St. Louis, MO.

239. **Control of Failed Corn Stands in Mississippi.** C. L. Smith\*, J. T. Irby, D. B. Reynolds; Mississippi State University, Mississippi State, MS.

240. **Tolerance of advanced cowpea (*Vigna unguicalata*) lines and cultivars to sulfentrazone herbicide.** T. TSENG\*, E. Alcober, V. Shivrain, N. Burgos; University of Arkansas, Fayetteville, AR.

**Monday, February 09, 2009**

**8:30 AM - 12:00 PM**

**Symposium: Invasive Plant Web-Accessible Databases & Volunteer Monitoring Program**

**Location:** Salon 1

**Chair:** J. D. Madsen\*; GeoResources Institute, Mississippi State University, Mississippi State, MS.

8:30 a.m. – 8:45 a.m.

**Introduction to the symposium.** J. D. Madsen\*; Mississippi State University, Mississippi State, MS.

8:45 a.m. – 9:15 a.m

241. **The Invasive Species Information Node of the National Biological Information Infrastructure.** E. Sellers\*, A. Simpson; United States Geological Survey (USGS), Reston, VA.

9:15 a.m. – 9:45 a.m

242. **Invasive Species Monitoring and Databases: the Importance of Measuring Outcomes and Impact.** M. A. Bowers\*; CSREES, Washington, DC.

9:45 a.m. – 10:15 a.m

243. **Connecting Citizens to Science to Create a Regional Early Detection Network for New England.** L. J. Mehrhoff\*; University of Connecticut, Storrs, CT.

10:15 a.m. – 10:45 a.m

244. **The invasive plant atlas of the MidSouth.** J. D. Madsen\*, G. N. Ervin; Mississippi State University, Mississippi State, MS.

10:45 a.m. – 11:15 a.m

245. **How to collaborate and share invasive species information via Web services and the Global Invasive Species Information Network.** A. Simpson\*, E. Sellers; United States Geological Survey (USGS), Reston, VA.

11:15 a.m. – 11:45 a.m

246. **Development of web based databases and other resources for supporting local EDRR initiatives.** R. G. Westbrook\*; U.S. Geological Survey, Whiteville, NC.

**Monday, February 09, 2009**

**8:00 AM - 12:00 PM**

**IX. Weed Biology & Ecology**

**Location:** Salon 6

**Chair:** J. L. Lindquist\*; Agronomy and Horticulture, University of Nebraska, Lincoln, NE.

8:00 a.m. – 8:15 a.m

247. **Effectiveness of Late-Season Herbicide Applications on Seed Suppression of Glyphosate-Resistant Palmer Amaranth.** L. E. Estorninos\*, J. K. Norsworthy, M. J. Wilson; Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR.

8:15 a.m. – 8:30 a.m

248. **Movement of glyphosate-resistant Palmer amaranth pollen in-field.** L. M. Sosnoskie\*,<sup>1</sup> T. M. Webster,<sup>2</sup> A. MacRae,<sup>3</sup> T. L. Grey,<sup>1</sup> A. S. Culpepper<sup>1</sup>; <sup>1</sup>Crop and Soil Sciences, University of Georgia, Tifton, GA, <sup>2</sup>USDA-ARS, Tifton, GA, <sup>3</sup>Horticulture, University of Florida, Wimauma, FL.

8:30 a.m. – 8:45 a.m

249. **Spread of herbicide resistance alleles in *Lolium rigidum* on farms.** J. Malone\*,<sup>1</sup> J. Baker,<sup>2</sup> P. Boutsalis,<sup>1</sup> C. Preston<sup>1</sup>; <sup>1</sup>School of Agriculture, Food & Wine, University of Adelaide, Glen Osmond, SA, Australia, <sup>2</sup>Bureau of Rural Sciences, Canberra, ACT, Australia.

8:45 a.m. – 9:00 a.m

250. **Genetic diversity in red rice from the southern U.S.A.** V. K. Shivrain\*,<sup>1</sup> N. R. Burgos,<sup>1</sup> D. R. Gealy,<sup>2</sup> K. A. Moldenhauer,<sup>1</sup> V. A. Boyett,<sup>1</sup> E. L. Alcober,<sup>1</sup> H. A. Agrama<sup>1</sup>; <sup>1</sup>Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR, <sup>2</sup>USDA-ARS, Dale Bumpers National Rice Research Center, Stuttgart, AR.

9:00 a.m. – 9:15 a.m

251. **Sorghum and shattercane hybridization: Implications for transgenic sorghum.** J. J. Schmidt\*,<sup>1</sup> L. Sahoo,<sup>1</sup> J. L. Lindquist,<sup>1</sup> D. J. Lee,<sup>1</sup> J. F. Pederson<sup>2</sup>; <sup>1</sup>Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE, <sup>2</sup>USDA-ARS, Lincoln, NE.

9:15 a.m. – 9:30 a.m

252. **Molecular targets for glyphosate resistance in horseweed and its phylogeography.** C. N. Stewart\*; Department of Plant Sciences, University of Tennessee, Knoxville, TN.

9:30 a.m. – 9:45 a.m

253. **Survey of Weed Diversity in Relation to Various Agricultural Practices as performed by Farmers in Thailand.** 2009. R. Nam-Matra\*, S. L. Jury, R. J. Froud-Williams; Plant Science, School of Biological Sciences, Reading, United Kingdom.

9:45 a.m. – 10:00 a.m.

**Break**

10:00 a.m. – 10:15 a.m

254. **Long-term impacts of weed management, nitrogen supply, and irrigation on weed populations in wheat/fallow systems; update and reanalysis.** R. F. Norris\*; Plant Science, University of California, Davis, CA.

10:15 a.m. – 10:30 a.m

255. **The association between the earthworm *Lumbricus terrestris* and giant ragweed (*Ambrosia trifida*) in agricultural fields across the eastern U.S. Corn Belt.** B. Schutte\*,<sup>1</sup> J. Liu,<sup>2</sup> A. Davis,<sup>1</sup> K. Harrison,<sup>3</sup> E. Regnier<sup>3</sup>; <sup>1</sup>United States Department of Agriculture - Agricultural Research Service, Urbana, IL, <sup>2</sup>University of Illinois, Urbana, IL, <sup>3</sup>Department of Horticulture and Crop Science, The Ohio State University, Columbus, OH.

10:15 a.m. – 10:45 a.m

256. **World's Worst Weeds: A new Paradigm.** L. Ziska\*; Crop Systems and Global Change Laboratory, USDA-ARS, Beltsville, MD.

10:30 a.m. – 11:00 a.m

257. **The effect of magnetic polarity fields on invasive and non-invasive plant species.** S. M. Talley\*, C. L. Ramsey; CPHST Lab - Fort Collins CO, USDA-APHIS, Fort Collins, CO.

10:45 a.m. – 11:15 a.m

258. **Why is early-season weed control important in maize (*Zea mays* (L.)?)** E. Page\*, E. A. Lee, M. T. Tollenaar, L. L. Lukens, C. J. Swanton; Plant Agriculture, University of Guelph, Guelph, ON, Canada.

11:00 a.m. – 11:30 a.m

259. **Weed control in furrow-irrigated Clearfield rice.** G. M. Griffith\*,<sup>1</sup> J. K. Norsworthy,<sup>1</sup> J. Still,<sup>1</sup> S. Bangarwa,<sup>1</sup> R. C. Scott<sup>2</sup>; <sup>1</sup>Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Fayetteville, AR.

11:15 a.m. – 11:45 a.m

260. **Impact of Isoxafutole on Kochia (*Kochia scoparia*) Germination.** G. M. Sbatella\*, R. G. Wilson; University of Nebraska, Scottsbluff, NE.

11:45 a.m. – 12:00 p.m

261. **Influence of Temperature and Light on Wild Radish (*Raphanus raphanistrum*) Germination over a 12-Month Period.** M. S. Malik\*,<sup>1</sup> J. K. Norsworthy,<sup>2</sup> M. B. Riley,<sup>1</sup> P. Jha<sup>2</sup>; <sup>1</sup>Entomology, Soils, and Plant Sciences, Clemson University, Clemson, SC, <sup>2</sup>Crop, Soils, and Environmental Sciences, University of Arkansas, Fayetteville, AR.

12:00 p.m. – 1:00 p.m.

**Lunch**

**Monday, February 09, 2009**  
**1:00 PM - 4:00 PM**  
**IX. Weed Biology & Ecology**

**Location:** Salon 6

1:00 p.m. – 1:15 p.m

262. **Seed size and germination characteristics of spring versus fall cohorts of *Anthemis arvensis*.** D. C. Brainard\*,<sup>1</sup> R. R. Bellinder,<sup>2</sup> V. Kumar,<sup>3</sup> C. Benedict<sup>2</sup>; <sup>1</sup>Horticulture, Michigan State University, East Lansing, MI, <sup>2</sup>Horticulture, Cornell University, Ithaca, NY, <sup>3</sup>International Rice Research Institute-India, New Delhi, India.

1:15 p.m. – 1:30 p.m

263. **Palmer Amaranth Persistence in the Soil Seedbank over Four Years.** P. Jha\*, J. K. Norsworthy; Department of Crop. Soil, and Environmental Science, University of Arkansas, Fayetteville, AR.

1:30 p.m. – 1:45 p.m

264. **The Demography of Feral Alfalfa (*Medicago sativa* L.) Populations Occurring in Southern Manitoba, Canada.** M. V. Bagavathiannan\*,<sup>1</sup> R. H. Gulden,<sup>1</sup> G. S. Begg,<sup>2</sup> R. C. Van Acker<sup>3</sup>; <sup>1</sup>Plant Science, University of Manitoba, Winnipeg, MB, Canada, <sup>2</sup>Environment Plant Interactions, Scottish Crop Research Institute, Dundee, United Kingdom, <sup>3</sup>Plant Agriculture, University of Guelph, Guelph, ON, Canada.

1:45 p.m. – 2:00 p.m

265. **The Effect of Genotype and Generation on Competition and Fecundity of Volunteer *Brassica napus*.** N. Seerey\*, S. J. Shirliff; Plant Sciences, University of Saskatchewan, Saskatoon, SK, Canada.

2:00 p.m. – 2:15 p.m

266. **Using multiple populations of herbicide-resistant and susceptible *Echinochloa phyllopogon* to improve prediction of rice yield-loss and weed seed production.** L. G. Boddy\*, A. J. Fischer; Plant Sciences, UC Davis, Davis, CA.



2:15 p.m. – 2:30 p.m

267. **Effects of varying soil nitrogen fertility levels on weed vigor and growth.** S. E. Whitehouse\*,<sup>1</sup> A. DiTommaso,<sup>1</sup> L. E. Drinkwater,<sup>2</sup> C. L. Mohler<sup>1</sup>; <sup>1</sup>Crop & Soil Science, Cornell University, Ithaca, NY, <sup>2</sup>Horticulture, Cornell University, Ithaca, NY.

2:30 p.m. – 2:45 p.m

268. **Corn (*Zea mays*) and velvetleaf (*Abutilon theophrasti*) water use efficiency.** L. G. Vaughn\*, J. L. Lindquist, M. L. Bernards, T. J. Arkebauer; University of Nebraska-Lincoln, Lincoln, NE.

2:45 p.m. – 3:00 p.m

269. **Variations in seed dormancy of weedy rice directly harvested from rice fields in Arkansas.** T. Tseng\*, N. Burgos, V. Shivrain, E. Alcober; Crop, Soil and Environmental Sciences, University of Arkansas, Fayetteville, AR.

3:00 p.m. – 3:15 p.m

270. **Pale Swallow-wort Establishment and Survival in Four Disturbance Regimens in Central New York State.** K. M. Averill\*,<sup>1</sup> A. DiTommaso,<sup>1</sup> C. L. Mohler,<sup>1</sup> L. R. Milbrath<sup>2</sup>; <sup>1</sup>Cornell University, Ithaca, NY, <sup>2</sup>USDA ARS, Ithaca, NY.

3:15 p.m. – 3:30 p.m

271. **Germination Characteristics of the Dimorphic Seeds of Spreading Atriplex (*Atriplex patula*).** R. E. Nurse\*,<sup>1</sup> W. D. Reynolds,<sup>1</sup> C. Doucet,<sup>2</sup> S. E. Weaver<sup>1</sup>; <sup>1</sup>Greenhouse and Processing Crops Research Centre, Agriculture and Agri-Food Canada, Harrow, ON, Canada, <sup>2</sup>Pest Management Regulatory Agency, Health Canada, Ottawa, ON, Canada.

3:30 p.m. – 3:45 p.m

272. **Congeneric and biogeographical approaches to allelopathy to better understand Invasion Success.** I. Singh\*; University of Delhi, Delhi, India.

3:45 p.m. – 4:00 p.m

273. **Tolerance of extreme soil moisture stress by the biofuel switchgrass may increase invasive potential.** J. Barney\*, J. DiTommaso; Plant Sciences, University of California, Davis, CA.

**Monday, February 09, 2009**

**8:00 AM - 12:00 PM**

**XI. Physiology**

**Location:** Salon 2

**Chair:** T. R. Wright\*; Discovery, Dow AgroSciences, Indianapolis, IN.

8:00 a.m. – 8:15 a.m

274. ***In planta* mechanism of action of sorgoleone.** F. E. Dayan\*,<sup>1</sup> J. D. Weidenhamer<sup>2</sup>; <sup>1</sup>NPURU, USDA-ARS, University, MS, <sup>2</sup>Department of Chemistry, Ashland University, Ashland, OH.

8:15 a.m. – 8:30 a.m

275. **Saflufenacil: Mode of action of a new herbicide for broad spectrum control of dicot weeds.** K. Grossmann\*, T. Ehrhardt; BASF, Limburgerhof, Germany.

8:30 a.m. – 8:45 a.m

276. **Cloning, characterization, regulation, and potential function of *DORMANCY-ASSOCIATED MADS-BOX* genes from leafy spurge.** D. Horvath\*, W. Chao; Plant Science, USDA-ARS, Fargo, ND.

8:45 a.m. – 9:00 a.m

277. **Red rice tolerance to N deficiency due to an early stress gene signalling and response mechanism.** M. A. Sales\*,<sup>1</sup> V. K. Shivrain,<sup>1</sup> L. Beers,<sup>2</sup> K. Yun,<sup>2</sup> N. R. Burgos,<sup>1</sup> B. G. de los Reyes<sup>2</sup>; <sup>1</sup>Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Maine, Orono, ME.

9:00 a.m. – 9:15 a.m

278. **Response to Light Quality as a Competitive Mechanism? Biomass Partitioning Associated With Shade Avoidance Characteristics in *Glycine max* L. Merr. (Soybean).** E. Green-Tracewicz\*, E. A. Lee, L. Lukens, M. Tollenaar, C. J. Swanton; Plant Agriculture, University of Guelph, Guelph, ON, Canada.

9:15 a.m. – 9:30 a.m

279. **Spray solution pH and glyphosate activity.** D. Penner\*, J. Michael; Crop and Soil Sciences, Michigan State University, East Lansing, MI.

9:30 a.m. – 9:45 a.m

280. **Multiple Resistance in Isoproturon Resistant Biotypes of *Phalaris minor* in India.** S. Singh\*, S. S. Punia, R. K. Malik; Agronomy Department, Haryana Agricultural University, Hisar, India.

9:45 a.m. – 10:15 a.m.

### **Break**

10:15 a.m. – 10:30 a.m

281. **Cross-Resistance to Clomazone and Penoxsulam in Late watergrass (*Echinochloa phyllopogon*): Role of Cytochrome P-450-mediated herbicide metabolism.** H. Yasuor\*,<sup>1</sup> M. D. Osuna,<sup>2</sup> A. Ortiz,<sup>3</sup> N. E. Saldaín,<sup>4</sup> A. J. Fischer<sup>1</sup>; <sup>1</sup>Plant Science, University of California, Davis, CA, <sup>2</sup>Departamento de Hortofruticultura, Centro de Investigación “Finca La Orden”, Guadajira, Badajoz, Spain, <sup>3</sup>Universi-

dad Central de Venezuela, Maracay, Venezuela, <sup>4</sup>Instituto Nacional de Investigación Agropecuaria, Treinta y Tres, Uruguay.

10:30 a.m. – 10:45 a.m

282. **ACCase mutation profile of herbicide-resistant ryegrass in Arkansas.** N. R. Burgos\*,<sup>1</sup> T. Stark,<sup>2</sup> V. K. Shivrain,<sup>1</sup> M. A. Sales,<sup>1</sup> E. A. Alcober,<sup>1</sup> R. C. Scott<sup>3</sup>; <sup>1</sup>Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR, <sup>2</sup>Biological Sciences, University of Arkansas, Fayetteville, AR, <sup>3</sup>Crop, Soil, and Environmental Sciences, University of Arkansas Cooperative Extension Service, Lonoke, AR.

10:45 a.m. – 11:00 a.m

283. **Mechanism of Triazine-Resistance in *Amaranthus palmeri* and *A. rudis*.** W. K. Vencill\*,<sup>1</sup> E. Prostko,<sup>2</sup> P. J. Tranel<sup>3</sup>; <sup>1</sup>Crop & Soil Sciences, University of Georgia, Athens, GA, <sup>2</sup>Crop & Soil Sciences, University of Georgia, Tifton, GA, <sup>3</sup>Department of Crop Science, University of Illinois, Urbana, IL.

11:00 a.m. – 11:15 a.m

284. **Interactions between mesotrione and atrazine in a velvetleaf (*Abutilon theophrasti*) biotype with metabolism-based atrazine resistance.** A. J. Woodyard\*, J. A. Hugie, D. E. Riechers; University of Illinois, Urbana, IL.

11:15 a.m. – 11:30 a.m

285. **Mechanism of Resistance to 2,4-D in Prickly Lettuce.** D. S. Riar\*, J. Yenish, I. C. Burke; Crop and Soil Sciences, Washington State University, Pullman, WA.

11:30 a.m. – 11:45 a.m

286. **Mechanisms of glyphosate resistance in *Echinochloa colona* from Australia.** F. Dolman\*,<sup>1</sup> J. Malone,<sup>1</sup> P. Boutsalis,<sup>1</sup> A. Storrie,<sup>2</sup> C. Preston<sup>1</sup>; <sup>1</sup>School of Agriculture, Food & Wine, University of Adelaide, Glen Osmond, SA, Australia, <sup>2</sup>NSW Department of Primary Industries, Tamworth, NSW, Australia.

11:45 a.m. – 1:00 p.m.

**Lunch**

**Monday, February 09, 2009**  
**1:00 PM - 3:30 PM**  
**XI. Physiology**

**Location:** Salon 2

**Moderator:** N. R. Burgos\*; Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR.

1:00 p.m. – 1:15 p.m

287. **Intracellular translocation of glyphosate in glyphosate-resistant and susceptible Palmer amaranth (*Amaranthus palmeri*).** N. Mantripragada\*,<sup>1</sup> W. K. Vencill,<sup>1</sup> T. L. Grey,<sup>2</sup> A. Culpepper<sup>2</sup>; <sup>1</sup>Crop and Soil Science, University of Georgia, Athens, GA, <sup>2</sup>Crop and Soil Science, University of Georgia, Tifton, GA.

1:15 p.m. – 1:30 p.m

288. **Glyphosate-resistance in hairy fleabane (*Conyza bonariensis*) is temperature and age dependent.** G. Ben-Ami, B. Rubin\*; R H Smith Inst. Plant Sci. & Genetics in Agric., R H Smit Faculty of Agriculture, Food & Environment, Rehovot, Israel.

1:30 p.m. – 1:45 p.m

289. **Physiological Investigation into Glyphosate and Glufosinate Antagonism.** W. J. Everman\*, C. F. Glaspie, D. Penner; Crop and Soil Science, Michigan State University, East Lansing, MI.

1:45 p.m. – 2:00 p.m

290. **Effectiveness of glyphosate and 2,4-D tank-mixes on horseweed (*Conyza canadensis*) plants at various growth stages.** G. R. Kruger\*, V. M. Davis, S. C. Weller, W. G. Johnson; Purdue University, West Lafayette, IN.

2:00 p.m. – 2:15 p.m

291. **Differential visual and physiological responses of several wild-type and herbicide resistant weed populations treated with different inhibitors of photosystem II and carotenoid biosynthesis.** G. R. Armel\*,<sup>1</sup> D. A. Kopsell,<sup>1</sup> B. R. Smith,<sup>1</sup> J. J. Vargas,<sup>1</sup> P. L. Rardon,<sup>2</sup> M. Ruggiero,<sup>2</sup> S. A. Gower<sup>3</sup>; <sup>1</sup>Plant Sciences, University of Tennessee, Knoxville, TN, <sup>2</sup>Herbicide Discovery, DuPont Crop Protection, Newark, DE, <sup>3</sup>Plant Diagnostic Service, Michigan State University, East Lansing, MI.

2:15 p.m. – 2:30 p.m

292. **Comparative Activity of Carotenoid Biosynthesis Inhibitors Combined with Atrazine in Target Site-Based Triazine-Resistant Redroot Pigweed (*Amaranthus retroflexus*).** J. A. Hugie\*, D. Riechers; Crop Sciences, University of Illinois, Urbana, IL.

2:30 p.m. – 2:45 p.m

293. **Genetic Polymorphism in the EPSPS Gene of Glyphosate Resistant Palmer Amaranth (*Amaranthus palmeri*).** E. L. Alcober\*,<sup>1</sup> N. Burgos,<sup>1</sup> M. Sales,<sup>1</sup> V. Shivrain,<sup>1</sup> T. Tseng,<sup>1</sup> K. Smith<sup>2</sup>; <sup>1</sup>Crop, Soil and Environmental Sciences, University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Monticello, AR.

2:45 p.m. – 3:00 p.m

294. **Exploring the Mechanisms of an Allelochemical-Mediated Iron Uptake in Plants Using Synchrotron X-ray Spectroscopy.** N. Tharayil\*,<sup>1</sup> D. Triebwasser,<sup>1</sup> K. Scheckel<sup>2</sup>; <sup>1</sup>Clemson University, Clemson, SC, <sup>2</sup>US EPA, Cincinnati, OH.

3:00 p.m. – 3:30 p.m.

**Business Meeting**

**Monday, February 9, 2009**

**1:00 p.m. – 3:00 p.m.**

**Poster Discussion Session – SWSS M.S.**

**Poster Contest**

**Location: Salons 7 & 8**

**See Posters 20-31**

**MONDAY PM, February 9  
WSSA GENERAL SESSION**

**Location:** International Center and South

**Chair:** David Shaw

4:15 p.m.

**Introduction and Announcements,** David Shaw, President-Elect, WSSA; Dan Reynolds, President-Elect, SWSS

4:25 p.m.

**President's Remarks,** Jeffrey Derr, President, WSSA

4:40 p.m.

**Keynote Speaker:** Dr. Edward B. Knipling, Administrator, U.S. Department of Agriculture, Agricultural Research Service

5:10 p.m.

**WSSA Business Meeting,** Jeffrey Derr, President, WSSA

5:40 p.m.

**Presentation of Awards,** Lori Wiles, Chair, Awards Committee, WSSA

6:10 p.m.

**Presentation of Fellow and Honorary Member Awards,** Jim Barrentine, Chair, Fellows and Honorary Member Subcommittee, WSSA

7:00 p.m. to 9:00 p.m.

**WSSA Awardee Reception and Member Social – Open to all meeting attendees and registered guests**

**Location:** Poolside (Salons 6–8 if inclement weather)

**Tuesday, February 10, 2009**

**8:00 a.m. – 10:00 a.m.**

**Poster Discussion Session – Weed Resistance,  
Weed Shifts, and Population Dynamics**

**Location: Salons 2 & 3**

**See Posters 32-43**

**Tuesday, February 10, 2009**

**8:00 a.m. – 10:00 a.m.**

**Poster Discussion Session – Physiology**

**Location: Salons 7 & 8**

**See Posters 68 – 78**

**Tuesday, February 10, 2009**

**8:00 AM - 11:00 AM**

**Symposium: Impact of Usage of Below-Label  
Herbicide Rates**

**Location:** International South

**Chair:** S. B. Powles\*; Australian National University,  
Perth, Australia.

8:00 a.m. – 8:30 a.m

295. **Genetic and evolutionary considerations of below-label herbicide rates.** M. J. Christoffers\*; North Dakota State Univ., Fargo, ND.

8:30 a.m. – 9:00 a.m

296. **Use of below label herbicide rates can lead to evolution of herbicide resistant weeds.** R. Busi\*, S. Manalil Velayudhan, S. B. Powles; University of Western Australia, Perth, Australia.

9:00 a.m. – 9:30 a.m

297. **Reduced Herbicide Rates. An Industry Perspective.** P. Doyle\*,<sup>1</sup> M. Stypa<sup>2</sup>; <sup>1</sup>Syngenta Crop Protection Canada Inc., Guelph, ON, Canada, <sup>2</sup>Syngenta Crop Protection Inc., Greensboro, NC.

9:30 a.m. – 10:00 a.m

298. **Crop production impacts of below-label herbicide rates.** J. T. O'Donovan\*,<sup>1</sup> K. N. Harker,<sup>1</sup> R. E. Blackshaw,<sup>2</sup> R. N. Stougaard<sup>3</sup>; <sup>1</sup>Agriculture and Agri-Food Canada, Lacombe, AB, Canada, <sup>2</sup>Agriculture and Agri-Food Canada, Lethbridge, AB, Canada, <sup>3</sup>Montana State University, Kalispell, MT.

10:00 a.m. – 10:30 a.m

299. **Reduced Herbicide Application Rates the Lesser of Two Evils? A Western Canadian's Perspective.** B. G. Murray\*; University of Manitoba, Carman, MB, Canada.

**Tuesday, February 10, 2009**  
**1:00 PM - 5:00 PM**  
**Symposium: Plant Pathogens & Biological**  
**Control of Weeds: A Symposium in Honor of**  
**Dr. R. Charudattan**

**Location:** International South

**Chair:** W. Bruckart\*; Foreign Disease-Weed Science Research Unit, USDA-ARS, Ft. Detrick, MD

**Chair:** J. Lydon\*; Sustainable Agricultural Systems Laboratory, USDA/ARS, Beltsville, MD

**Chair:** J. Neal\*; Horticultural Science, North Carolina State University, Raleigh, NC.

1:00 p.m. – 1:10 p.m.

**Introduction.**

1:10 p.m. – 1:25 p.m.

**300. Impact and legacy of R. Charudattan in biological control of weeds.** E. N. Rosskopf\*,<sup>1</sup> Y. Shabana,<sup>2</sup> J. DeValerio,<sup>3</sup> M. Elliott<sup>2</sup>; <sup>1</sup>USDA, ARS, Fort Pierce, FL, <sup>2</sup>University of Florida, Gainesville, FL, <sup>3</sup>University of Florida, Starke, FL.

1:25 p.m. – 1:45 p.m

**301. Formulating bacteria and fungi for improved efficacy and shelf life.** R. K. Hynes\*; Agriculture & Agri-Food Canada, Saskatoon, SK, Canada.

1:45 p.m. – 2:05 p.m

**302. Integrated Weed Management and Biological Control Products Development.** R. A. Pitelli\*; University of State of Sao Paulo, Jaboticabal, Brazil.

2:05 p.m. – 2:25 p.m

**303. Risk assessment and commercialization of broad host range pathogens for weed control.** G. W. Bourdot\*; AgResearch Limited, Christchurch, New Zealand.

2:25 p.m. – 2:45 p.m

**304. Models for commercialization - from high value sites to limited resource farmers.** A. Watson\*; McGill Univ., Ste-Anne-de-Bellevue, QC, Canada.

2:45 p.m. – 3:05 p.m

**305. International collaboration for biological control agent exploration and development : a Brazilian perspective.** R. W. Barreto\*; Universidade Federal de Viçosa, Viçosa, MG, Brazil.

3:05 p.m. – 3:20 p.m.

**Break**

3:20 p.m. – 3:40 p.m

306. **Biological control of invasive alien Crofton weed using *Alternaria alternata* in China.** S. Qiang\*; Nanjing Agricultural University, Nanjing, China.

3:40 p.m. – 4:00 p.m

307. **Fungal Pathogens for Classical Biological Control of Invasive Alien Weeds.** H. C. Evans\*; CAB International, Egham, United Kingdom.

4:00 p.m. – 4:20 p.m

308. **Plant pathogens for biological control of aquatic weeds.** J. F. Shearer\*; Engineer Research and Development Center, Vicksburg, MS.

4:20 p.m. – 4:40 p.m

309. **Exploring Bacteria for Biological Weed Control.** S. M. Boyetchko\*; Agriculture and Agri-Food Canada, Saskatoon, SK, Canada.

4:40 p.m. – 5:00 p.m

310. **A Reflection on 38 Years of Research in Weed Biological Control: Using What We Have Learned for Future Applications.** R. Charudattan\*; University of Florida, Gainesville, FL.

**Tuesday, February 10, 2009**  
**8:00 AM - 12:00 PM**  
**SWSS - M.S. Oral Paper Contest**

**Location:** Salon 6

8:00 a.m. – 8:15 a.m

311. **Planting dates to optimize weed suppression with buckwheat in Florida.** P. Huang\*, C. A. Chase, B. M. Santos, X. Zhao; Horticultural Sciences, University of Florida, Gainesville, FL.

8:15 a.m. – 8:30 a.m

312. **Application timings and rates of saflufenacil (Kixor) in no-till cotton.** L. N. Owen\*, L. E. Steckel, C. L. Main, T. C. Mueller; Plant Sciences, University of Tennessee, Knoxville, TN.

8:30 a.m. – 8:45 a.m

313. **Palmer amaranth (*Amaranthus palmeri*) management in Covington and Beauregard sweetpotato using density models and herbicides.** S. L. Meyers\*, K. M. Jennings, D. W. Monks, J. R. Schultheis; Horticultural Science, North Carolina State University, Raleigh, NC.



8:45 a.m. – 9:00 a.m

314. **Weed Control with Glufosinate in Liberty Link Soybean.** B. M. Davis\*,<sup>1</sup> R. C. Scott,<sup>1</sup> T. W. Dillon,<sup>1</sup> K. L. Smith<sup>2</sup>; <sup>1</sup>University of Arkansas, Cooperative Extension Service, Lonoke, AR, <sup>2</sup>University of Arkansas, Cooperative Extension Service, Monticello, AR.

9:00 a.m. – 9:15 a.m

315. **Tolerance of bell pepper in plasticulture to S-metolachlor at various rates and timings.** R. A. Pekarek\*, D. Monks, K. Jennings; Horticultural Science, North Carolina State University, Raleigh, NC.

9:15 a.m. – 9:30 a.m

316. **Herbicide systems for control of glyphosate resistant Italian ryegrass.** R. Bond\*,<sup>1</sup> C. H. Koger,<sup>2</sup> D. Poston<sup>3</sup>; <sup>1</sup>Weed Science, Mississippi State University, Stoneville, MS, <sup>2</sup>Mississippi State University Extension Service, Stoneville, MS, <sup>3</sup>Mississippi State University, Stoneville, MS.

9:30 a.m. – 9:45 a.m

317. **Development of an invasive assessment protocol for North Carolina nursery crops.** C. A. Englert\*, J. C. Neal, T. G. Ranney; Horticultural Science, North Carolina State University, Raleigh, NC.

9:45 a.m. – 10:15 a.m.

**Break**

10:15 a.m. – 10:45 a.m

318. **Effect of Pyriithobac and S-metolachlor Co-application on Cotton Growth and Yield.** R. E. Ferguson\*,<sup>1</sup> D. O. Stephenson,<sup>1</sup> D. K. Miller,<sup>2</sup> A. M. Stewart<sup>1</sup>; <sup>1</sup>Dean Lee Research and Extension Center, LSU AgCenter, Alexandria, LA, <sup>2</sup>Northeast Research and Extension Center, LSU AgCenter, St. Joseph, LA.

10:45 a.m. – 10:45 a.m

319. **Evaluation of iodomethane as a methyl bromide alternative in turf systems.** J. B. Unruh\*, B. J. Brecke; West Florida Research and Education Center, University of Florida, Jay, FL.

10:45 a.m. – 11:00 a.m

320. **Changes in Seasonal Growth and Shading Potential of Sugarcane: A Study in Weed/Crop Competition.** M. Bittencourt\*, G. L. James; Louisiana State University, Baton Rouge, LA.

11:00 a.m. – 11:15 a.m

321. **Evaluation of Various Graminicides for Selective Bermudagrass Control in Zoysiagrass Fairways.** D. F. Lewis\*,<sup>1</sup> J. S. McElroy,<sup>2</sup> J. C. Sorochan,<sup>1</sup> J. T. Brosnan,<sup>1</sup> G. K. Breeden<sup>1</sup>; <sup>1</sup>Plant Sciences, University of Tennessee,

Knoxville, TN, <sup>2</sup>Agronomy and Soils, Auburn University, Auburn, AL.

11:15 a.m. – 11:30 a.m

322. **Cotton tolerance to propazine/glyphosate postemergence combinations.** K. S. Verett\*,<sup>1</sup> J. W. Keeling,<sup>2</sup> P. A. Dotray<sup>2</sup>; <sup>1</sup>Texas AgriLife Research/Texas Tech University, Lubbock, TX, <sup>2</sup>Texas AgriLife Research, Lubbock, TX.

11:30 a.m. – 11:45 a.m

323. **Influence of increasing common ragweed (*Ambrosia artemisiifolia* L.) and common cocklebur (*Xanthium strumarium* L.) densities on forage quality and yield in tall fescue pastures.** K. K. Payne\*, K. W. Bradley; Univ. of Missouri, Columbia, MO.

11:45 a.m. – 1:00 p.m.

**Lunch**

**Tuesday, February 10, 2009**

**8:00 AM - 12:00 PM**

**I. Agronomic Crops**

**Location:** International Center

**Chair:** V. Nandula\*; Mississippi State University, Stoneville, MS.

8:00 a.m. – 8:15 a.m

324. **Texasweed (*Caperonia palustris*) Response to Rice Herbicides in Greenhouse Screening.** J. R. Meier\*,<sup>1</sup> K. L. Smith,<sup>2</sup> R. C. Doherty,<sup>1</sup> J. A. Bullington<sup>1</sup>; <sup>1</sup>Division of Agriculture, University of Arkansas, Monticello, AR, <sup>2</sup>Division of Agriculture Cooperative Extension Service, University of Arkansas, Monticello, AR.

8:15 a.m. – 8:30 a.m

325. **Response of non-transgenic rice to simulated glyphosate and imazethapyr drift.** J. B. Hensley\*, E. P. Webster, S. L. Bottoms, T. P. Carlson; Louisiana State University, Baton Rouge, LA.

8:30 a.m. – 8:45 a.m

326. **Performance of Halomax in Rice.** R. S. Helms\*, M. Hackworth; G & H Associates, Stuttgart, AR.

8:45 a.m. – 9:00 a.m

327. **Impact of herbicide drift on rice.** R. J. Levy\*,<sup>1</sup> J. B. Hensley,<sup>2</sup> E. P. Webster,<sup>3</sup> S. L. Bottoms<sup>2</sup>; <sup>1</sup>LSU AgCenter, LSU, Alexandria, LA, <sup>2</sup>School of Plant, Environmental, and Soil Sciences, LSU, Baton Rouge, LA, <sup>3</sup>LSU AgCenter, School of Plant, Environmental, and Soil Sciences, LSU, Baton Rouge, LA.

9:00 a.m. – 9:15 a.m

328. **Control of Glyphosate-resistant weeds in Mississippi Rice Production.** J. A. Bond\*, T. W. Walker, L. C. Vaughn, J. Manning; Delta Research and Extension Center, Mississippi State University, Stoneville, MS.

9:15 a.m. – 9:30 a.m

329. **Economic vis-à-vis microbiological impact assessment of different weed management practices in rice-rice cropping system in new alluvial soil of West Bengal.** K. Brahmachari\*,<sup>1</sup> R. Kundu,<sup>1</sup> G. Saha<sup>2</sup>; <sup>1</sup>Agronomy, Bidhan Chandra Agricultural University, Kalyani, India, <sup>2</sup>Agril. Metrology and Physics, Bidhan Chandra Agricultural University, Kalyani, India.

9:30 a.m. – 9:45 a.m

330. **Influence of Adjuvant Selection on Barnyardgrass Control with Clincher in Rice.** J. A. Still\*, J. K. Norsworthy, S. Bangarwa, M. J. Wilson, G. M. Griffith, R. C. Scott, L. E. Estorninos; Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR.

9:45 a.m. – 10:15 a.m.

**Break**

10:15 a.m. – 10:30 a.m

331. **Rice Weed Control in Louisiana.** E. P. Webster\*; School of Plant, Environmental, and Soil Sciences, LSU AgCenter, Baton Rouge, LA.

10:30 a.m. – 10:45 a.m

332. **Effect of Rate and Timing on Broadleaf Weed Control in Rice with DPX-KJM44.** M. J. Wilson\*, J. K. Norsworthy, S. Bangarwa, G. Griffith, J. Still, R. Scott; Crop, Soils, and Environmental Sciences, University of Arkansas, Fayetteville, AR.

10:45 a.m. – 11:00 a.m

333. **Weed control in glufosinate-resistant soybeans.** A. Hopkins\*, S. Garris, M. Weber, J. Allen; Bayer CropScience, Research Triangle Park, NC.

11:00 a.m. – 11:15 a.m

334. **Roundup Ready Soybean: Next Generation Yield Results.** P. Pedersen\*,<sup>1</sup> K. Nelson,<sup>2</sup> W. Wiebold,<sup>2</sup> L. Paul,<sup>3</sup> R. Esgar,<sup>4</sup> S. Conley,<sup>5</sup> J. Gruber,<sup>6</sup> B. Burdick,<sup>2</sup> E. Adee,<sup>3</sup> B. Young,<sup>7</sup> M. Vose,<sup>3</sup> J. Beuerlein,<sup>8</sup> T. Vyn<sup>9</sup>; <sup>1</sup>Iowa State University, Ames, IA, <sup>2</sup>University of Missouri, Columbia, MO, <sup>3</sup>University of Illinois, Urbana, IL, <sup>4</sup>Agronomy, University of Illinois, Urbana, IL, <sup>5</sup>University of Wisconsin, Madison, WI, <sup>6</sup>Ag Consultants, New Holland, OH, <sup>7</sup>Southern Illinois University, Carbondale, IL, <sup>8</sup>Ohio State University, Columbus, OH, <sup>9</sup>Purdue University, West Lafayette, IN.

11:15 a.m. – 11:30 a.m

335. **Comparison of Preemergence Herbicide Programs in Glyphosate-resistant Soybean.** K. W. Bradley\*, K. K. Payne; Division of Plant Sciences, University of Missouri, Columbia, MO.

11:30 a.m. – 11:45 a.m

336. **Fomesafen + Glyphosate: A New Premix for Managing Glyphosate Resistant Weeds in Soybean.** E. W. Palmer\*, D. E. Bruns, B. D. Black, J. C. Holloway, S. H. Martin, T. H. Beckett, D. J. Porter; Syngenta Crop Protection, Inc., Greensboro, NC.

11:45 a.m. – 12:00 p.m

337. **Herbicide Combinations with Saflufenacil for Preplant Burndown Weed Management in Soybean.** A. C. Hixson\*, J. S. Harden, L. D. Charvat, T. D. Klingaman, W. E. Thomas; Biology, BASF Corporation, Research Triangle Park, NC.

12:00 p.m. – 1:00 p.m.

**Lunch**

**Tuesday, February 10, 2009**

**1:00 PM - 3:00 PM**

**I. Agronomic Crops**

**Location:** International Center

**Moderator:** T. Eubank\*; Miss. State University, Stoneville, MS.

1:00 p.m. – 1:15 p.m

338. **Effect of Soil type, Spray and Incorporation Methods on Weed Control Efficacy of Trifluralin in Cotton in N-W India.** S. Singh\*,<sup>1</sup> S. S. Punia,<sup>1</sup> A. Singh,<sup>2</sup> A. P. Brar,<sup>3</sup> R. Chandolia,<sup>4</sup> E. Dagan,<sup>5</sup> Y. Goldschmidt<sup>5</sup>; <sup>1</sup>Agronomy, Haryana Agricultural University, Hisar, India, <sup>2</sup>Agronomy-Extension, Haryana Agricultural University, Hisar, India, <sup>3</sup>Agronomy-Extension, Punjab Agricultural University, Ludhiana, India, <sup>4</sup>Atash International, Mumbai, India, <sup>5</sup>Makhteshim Agan, Tel Aviv, Israel.

1:15 p.m. – 1:30 p.m

339. **Controlling ALS-Resistant Palmer amaranth in Virginia cotton.** D. Holshouser\*,<sup>1</sup> H. Wilson<sup>2</sup>; <sup>1</sup>Tidewater AREC, Virginia Tech, Suffolk, VA, <sup>2</sup>Eastern Shore AREC, Virginia Tech, Painter, VA.

1:30 p.m. – 1:45 p.m

340. **Long-Term Tillage Systems in a Coastal Plain Cotton-Peanut Rotation.** T. M. Webster\*,<sup>1</sup> P. Timper,<sup>1</sup> L. M. Sosnoskie<sup>2</sup>; <sup>1</sup>Crop Protection and Management Research Unit, USDA-ARS, Tifton, GA, <sup>2</sup>Crop and Soil Sciences, University of Georgia, Tifton, GA.

1:45 p.m. – 2:00 p.m

341. **Metolachlor formulation and ground cover effects on cotton and weed growth - greenhouse experiments.** G. S. Cutts\*; Crop and Soil Science, Univeristy of Georiga, Athens, GA.

2:00 p.m. – 2:15 p.m

342. **Efficacy of pendimethalin in irrigated cotton as affected by application method.** W. B. McCloskey\*; Plant Sciences, Univ. of Arizona, Tucson, AZ.

2:15 p.m. – 2:30 p.m

343. **Pollen-mediated gene flow and hybridization between Clearfield® wheat (*Triticum aestivum*) and jointed goatgrass (*Aegilops cylindrica*) in a commercial production field.** A. Perez-Jones\*, S. Macnab, C. Mallory-Smith; Crop and Soil Science, Oregon State University, Corvallis, OR.

2:30 p.m. – 2:45 p.m

344. **Management of Italian ryegrass (*Lolium multiflorum*) in wheat.** R. L. Ritter\*, H. Menbere, J. Ikley; Plant Science and Landscape Architecture, Univ of MD, Laurel, MD.

2:45 p.m. – 3:00 p.m

345. **Replacing Chemical Weed Control with Allelopathy in Wheat: A Case Study in Punjab, Pakistan.** Z. A. Cheema\*, A. Khaliq, M. Farooq, M. N. Mushtaq; Agronomy, University of Agriculture, Faisalabad, Faisalabad, Pakistan.

**Tuesday, February 10, 2009**

**8:00 AM - 12:00 PM**

**V. Wildlands & Aquatic Invasives**

**Location:** Salon 1

**Chair:** C. J. Gray\*; United Phosphorus, Inc., Peyton, CO

**Moderator:** C. R. Mudge\*; Environmental Lab, US Army Corps of Engineers, Vicksburg, MS.

8:00 a.m. – 8:15 a.m

346. **Fire Response of *Melaleuca quinquenervia* transformed by Biological Control.** P. W. Tipping\*; ARS, USDA, Ft. Lauderdale, FL.

8:15 a.m. – 8:30 a.m

347. **Origin of artichoke thistle (*Cynara cardunculus*) in the US: Evidence for a particularly weedy genotype with Iberian origins.** J. S. Holt\*, J. A. Garcia; Botany & Plant Sciences, University of California, Riverside, CA.

8:30 a.m. – 8:45 a.m

348. **Can Alligator Weed Be Better Managed in Australia? Taking Stock of 20 Years of Management Effort.** N. R.

Chandrasena\*; Ecowise Environmental, Penrith, NSW, Australia.

8:45 a.m. – 9:00 a.m

349. **Integrated Management of Cogongrass (*Imperata cylindrica*) for Bahiagrass Pastures.** G. MacDonald\*,<sup>1</sup> J. A. Ferrell,<sup>1</sup> K. A. Langeland,<sup>1</sup> B. A. Sellers<sup>2</sup>; <sup>1</sup>Agronomy, University of Florida, Gainesville, FL, <sup>2</sup>Range Cattle Research and Education Center, Ona, FL.

9:00 a.m. – 9:15 a.m

350. **Using endothall in irrigation canals for sago pondweed (*Stuckenia pectinata*) control.** C. J. Gray\*,<sup>1</sup> G. Adrian,<sup>2</sup> K. J. Walz<sup>2</sup>; <sup>1</sup>United Phosphorus, Inc., Peyton, CO, <sup>2</sup>United Phosphorus, Inc., King Of Prussia, PA.

9:15 a.m. – 9:30 a.m

351. **Local-scale GIS Modeling of Eurasian Watermilfoil.** J. M. Prince\*,<sup>1</sup> D. R. Shaw,<sup>1</sup> J. D. Madsen,<sup>1</sup> J. L. Harvill,<sup>2</sup> G. E. Ervin,<sup>1</sup> S. A. Samson,<sup>1</sup> J. L. Martin<sup>1</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Baylor University, Waco, TX.

9:30 a.m. – 9:45 a.m

352. **Responses of selected aquatic weeds to carfentrazone and flumioxazin.** R. J. Richardson\*, A. P. Gardner, R. L. Roten, S. T. Hoyle; Crop Science, North Carolina State Univ., Raleigh, NC.

9:45 a.m. – 10:15 a.m.

**Break**

10:15 a.m. – 10:30 a.m

353. **Differential Absorption and Metabolism of Imazamox and Imazapyr in *Hydrilla verticillata*.** A. Puri\*,<sup>1</sup> M. Royuela,<sup>2</sup> W. T. Haller,<sup>1</sup> G. E. MacDonald<sup>3</sup>; <sup>1</sup>Center for Aquatic and Invasive Plants, University of Florida, Gainesville, FL, <sup>2</sup>Universidad Pública de Navarra, Pamplona, Spain, <sup>3</sup>Department of Agronomy, University of Florida, Gainesville, FL.

10:30 a.m. – 10:45 a.m

354. **Evaluation of flumioxazin and bispyribac combinations for control of hydrilla (*Hydrilla verticillata*).** C. R. Mudge\*, L. S. Nelson, H. J. Theel; US Army Corps of Engineers, Engineer Research and Development Center, Vicksburg, MS.

10:45 a.m. – 11:00 a.m

355. **Intra-species variation of submersed aquatic plants to herbicide treatments.** M. D. Netherland\*,<sup>1</sup> L. M. Glomski,<sup>2</sup> B. Bultemeier<sup>3</sup>; <sup>1</sup>Environmental Laboratory, US Army ERDC, Gainesville, FL, <sup>2</sup>Environmental Laboratory, US Army ERDC, Lewisville, TX, <sup>3</sup>Center for Aquatic and Invasive Plants, University of Florida, Gainesville, FL.

11:00 a.m. – 11:15 a.m

356. **Monoecious hydrilla phenology and tuber dynamics in North Carolina.** J. J. Nawrocki\*, R. J. Richardson, S. Hoyle, A. P. Gardner, R. L. Roten; Crop Science, North Carolina State Univ., Raleigh, NC.

11:15 a.m. – 11:30 a.m

357. **Integrating Biological Control with Herbicides for Dalmatian Toadflax Control: Do “Many Little Hammers” Really Work?** S. Enloe\*,<sup>1</sup> A. Norton,<sup>2</sup> P. Meiman,<sup>2</sup> T. Collier<sup>3</sup>; <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>Colorado State University, Fort Collins, CO, <sup>3</sup>University of Wyoming, Laramie, WY.

11:30 a.m. – 12:00 p.m.

**Business Meeting**

12:00 p.m. – 1:00 p.m.

**Lunch**

**Tuesday, February 10, 2009**

**10:00 a.m. – 12:00 noon**

**Poster Discussion Session – Weed Biology  
and Ecology**

**Location: Salons 2 & 3**

**See Posters 44 – 55**

**Tuesday, February 10, 2009**

**10:00 a.m. – 12:00 noon**

**Poster Discussion Session – Integrated and  
Organic Weed Management**

**Location: Salons 7 & 8**

**See Posters 79 – 90**

**Tuesday, February 10, 2009**

**1:00 PM - 3:00 PM**

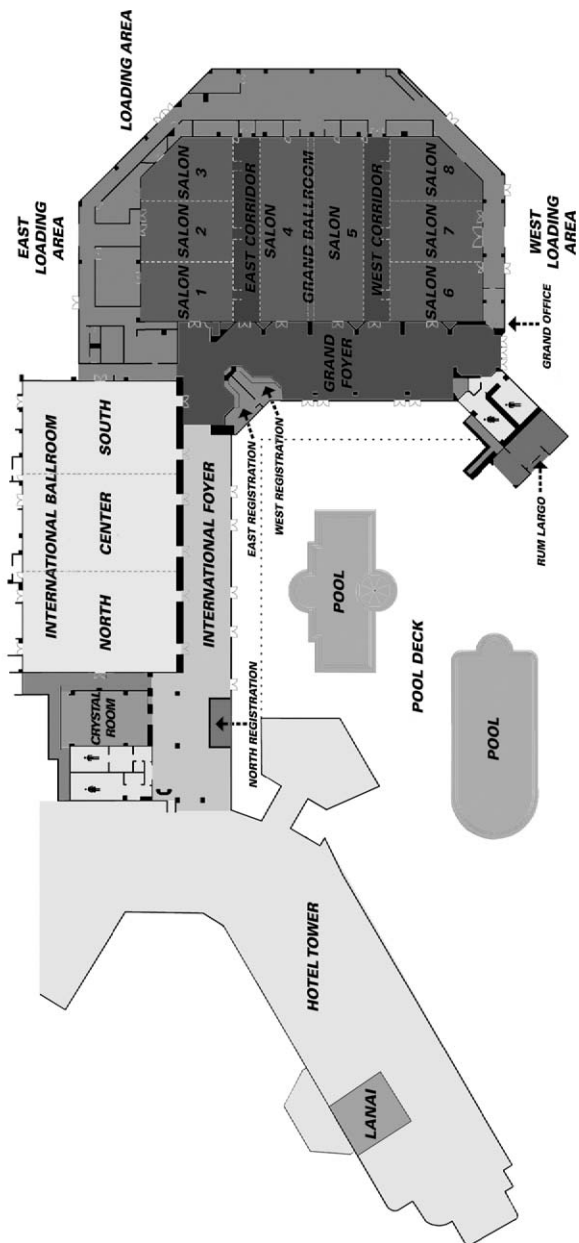
**VII. Teaching & Extension**

**Location: Salon 1**

1:00 p.m. – 1:15 p.m

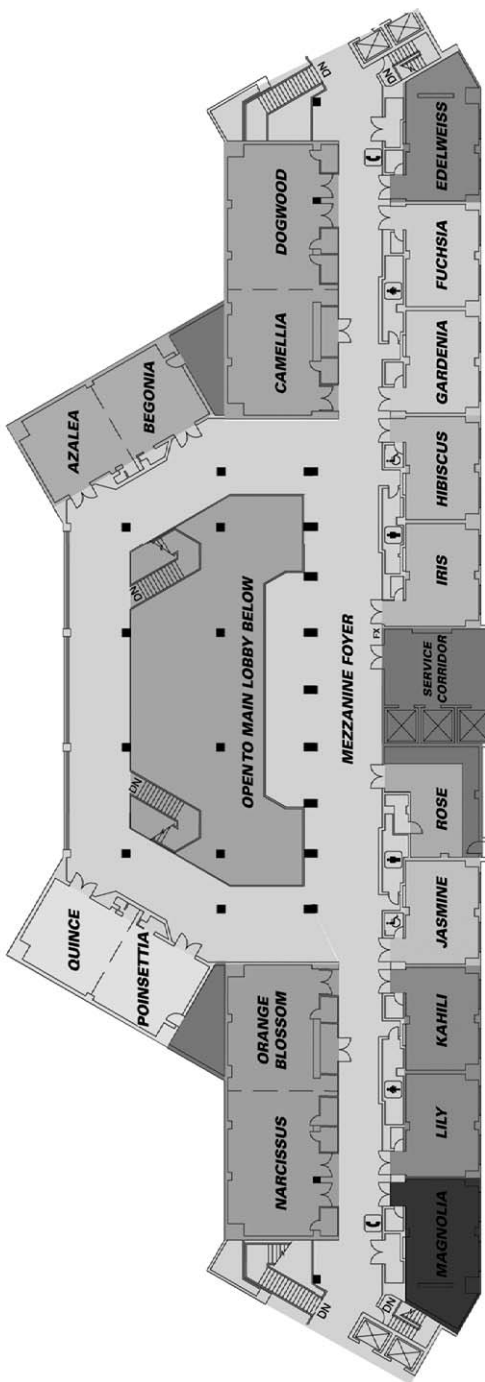
358. **Extension Response To Contaminated 2,4-DB/Peanut Problems In 2007.** E. P. Prostko\*,<sup>1</sup> J. T. Flanders,<sup>2</sup> S. N. Brown<sup>3</sup>; <sup>1</sup>Department of Crop & Soil Sciences, The University of Georgia, Tifton, GA, <sup>2</sup>Berrien County Cooperative Extension, Nashville, GA, <sup>3</sup>Colquitt County Cooperative Extension, Moultrie, GA.

# Ballrooms – Lobby Level





# Mezzanine Level – Second Floor



1:15 p.m. – 1:30 p.m

359. **What to learn from thirty years of research on herbicide resistant weeds?** R. A. Bulcke\*, E. Mechant, T. De Marez, J. Aper; Weed Science Unit, Ghent University, Ghent, Belgium.

1:30 p.m. – 1:45 p.m

360. **New Functionality in WeedSOFT to Demonstrate Principles of Weed Management.** M. Bernards\*, L. Sandell, R. Eubanks; Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE.

1:45 p.m. – 1:45 p.m

361. **Change in Crop Management in Nebraska's Lower Big Blue Watershed, 1996–2006.** M. Bernards\*,<sup>1</sup> T. Franti<sup>2</sup>; <sup>1</sup>Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE, <sup>2</sup>Biosystems Engineering, University of Nebraska-Lincoln, Lincoln, NE.

2:00 p.m. – 2:30 p.m.

**Business Meeting**

**Tuesday, February 10, 2009**

**1:00 p.m. – 3:00 p.m.**

**Poster Discussion Session – SWSS Ph.D.**

**Poster Contest**

**Location: Salons 7 & 8**

**See Posters 91 – 98**

**Tuesday, February 10, 2009**

**1:00 p.m. – 3:00 p.m.**

**Poster Discussion Session – Horticultural Crops**

**Location: Salons 2 & 3**

**See Posters 56 – 67**

**Wednesday, February 11, 2009**

**8:00 a.m. – 10:00 a.m.**

**Poster Discussion Session – Row Crop**

**Weed Control**

**Location: Salons 2 & 3**

**See Posters 99 – 110**

**Wednesday, February 11, 2009**

**10:00 a.m. – 12:00 noon**

**Poster Discussion Session – Small Grain  
and Row Crop Weed Control**

**Location: Salons 7 & 8**

**See Posters 111 – 122**

**Wednesday, February 11, 2009**  
**8:30 AM - 12:00 PM**  
**Symposium: Glyphosate Resistant**  
**Palmer Amaranth – Incidence, Impacts,**  
**Mechanisms and Management**

**Location:** International South

**Chair:** R. L. Nichols\*; Cotton Incorporated, Cary, NC.

8:30 a.m. – 8:40 a.m

362. **Glyphosate Resistance - A Worldwide Phenomenon.** R. L. Nichols\*; Cotton Incorporated, Cary, NC.

8:40 a.m. – 8:55 a.m

363. **Glyphosate resistance in the United States.** M. D. Owen\*; Iowa State University, Ames, IA.

8:55 a.m. – 9:15 a.m

364. **Glyphosate-resistant Palmer amaranth in the Southeast.** A. S. Culpepper\*,<sup>1</sup> A. C. York,<sup>2</sup> M. W. Marshall<sup>3</sup>; <sup>1</sup>University of Georgia, Tifton, GA, <sup>2</sup>N. C. State University, Raleigh, NC, <sup>3</sup>Clemson University, Blackville, SC.

9:15 a.m. – 9:35 a.m

365. **Glyphosate Resistant Palmer Amaranth in the Mid-South.** L. Steckel\*,<sup>1</sup> K. Smith,<sup>2</sup> B. Scott,<sup>3</sup> D. Stephenson,<sup>4</sup> T. Koger,<sup>5</sup> J. Bond,<sup>5</sup> D. Miller,<sup>6</sup> S. Stewart,<sup>4</sup> D. Dodd<sup>7</sup>; <sup>1</sup>University of Tennessee, Jackson, TN, <sup>2</sup>University of Arkansas, Monticello, AR, <sup>3</sup>University of Arkansas, Loneoak, AR, <sup>4</sup>Louisiana State University, Alexandria, LA, <sup>5</sup>Mississippi State University, Stoneville, MS, <sup>6</sup>Louisiana State University, St. Joseph, LA, <sup>7</sup>Mississippi State University, Starkville, MS.

9:35 a.m. – 9:50 a.m

366. **Glyphosate Resistant Palmer Amaranth- A Threat to Conservation Tillage.** A. J. Price\*,<sup>1</sup> D. W. Reeves,<sup>2</sup> D. A. Lamm<sup>3</sup>; <sup>1</sup>USDA-ARS-NSDL, Auburn, AL, <sup>2</sup>USDA-ARS-JPC, Watkinsville, GA, <sup>3</sup>USDA-NRCS-ENTSC, Greensboro, NC.

9:50 a.m. – 10:15 a.m.

**Discussion.**

10:15 a.m. – 10:35 a.m

367. **Examining glyphosate resistance mechanisms in Palmer amaranth.** R. D. Sammons\*, A. Herr, K. A. Kretzmer, A. Norris, E. Ostrander, B. Duncan, S. Schrader; Monsanto, St. Louis, MO.

10:35 a.m. – 10:50 a.m

368. **A novel mechanism of resistance to glyphosate in Palmer amaranth (*Amaranthus palmeri*).** T. Gaines\*,<sup>1</sup> C. Preston,<sup>2</sup>

D. Shaner,<sup>3</sup> J. Leach,<sup>1</sup> S. Chisholm,<sup>1</sup> B. Bukun,<sup>1</sup> S. Ward,<sup>1</sup> A. S. Culpepper,<sup>4</sup> P. Tranel,<sup>5</sup> P. Westra<sup>1</sup>; <sup>1</sup>Colorado State University, Fort Collins, CO, <sup>2</sup>University of Adelaide, Adelaide, Australia, <sup>3</sup>USDA-ARS, Fort Collins, CO, <sup>4</sup>University of Georgia, Tifton, GA, <sup>5</sup>University of Illinois, Urbana, IL.

10:50 a.m. – 11:05 a.m

**369. Effects of Herbicides and Cultural Practices on Rate of Glyphosate Resistance Development in Palmer Amaranth.** J. K. Norsworthy\*,<sup>1</sup> P. Neve,<sup>2</sup> K. Smith,<sup>3</sup> C. Foresman,<sup>4</sup> I. Zelaya<sup>5</sup>; <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Warwick, Wellesbourne, United Kingdom, <sup>3</sup>University of Arkansas, Monticello, AR, <sup>4</sup>Syngenta Crop Protection, Raleigh, NC, <sup>5</sup>Syngenta Crop Protection, Bracknell, United Kingdom.

11:05 a.m. – 11:20 a.m

**370. Practicing herbicide resistance management.** A. C. York\*,<sup>1</sup> A. S. Culpepper<sup>2</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>University of Georgia, Tifton, GA.

11:20 a.m. – 11:35 a.m

**371. New Herbicide Resistance Traits and their Management.** C. H. Koger\*,<sup>1</sup> D. M. Dodds<sup>2</sup>; <sup>1</sup>Mississippi State University, Stoneville, MS, <sup>2</sup>Mississippi State University, Starkville, MS.

11:35 a.m. – 12:00 p.m.

**Discussion.**

**Wednesday, February 11, 2009**

**12:00 PM - 3:00 PM**

**Symposium: Research Ethics & Mentoring  
in Weed Science**

**Location:** International South

**Chair:** V. M. Davis\*; Botany and Plant Pathology, Purdue University, West Lafayette, IN

**Chair:** S. Ward\*; Colorado State Univ, Ft. Collins, CO

**Chair:** C. N. Stewart\*; Department of Plant Sciences, University of Tennessee, Knoxville, TN

**Chair:** D. Refsell\*; Crop Sciences, University of Illinois, Urbana, IL.

12:00 p.m. – 12:45 p.m

**372. The Importance of Ethics in Research.** G. Comstock\*; North Carolina State University, Raleigh, NC.

12:45 p.m. – 1:10 p.m

373. **Publish or perish: authorship and peer review.** M. E. Foley\*; USDA-ARS, Fargo, ND.

1:10 p.m. – 1:35 p.m

374. **Diversity and Inclusion: Why All the Fuss?** T. M. Sterling\*; New Mexico State University, Las Cruces, NM.

1:35 p.m. – 1:50 p.m

375. **Graduate Student Ethics—Laying the Groundwork for the Future.** D. Refsell\*; University of Illinois, Urbana, IL.

1:50 p.m. – 2:00 p.m.

**Break**

2:00 p.m. – 3:00 p.m.

**Research ethics panel discussion.** C. N. Stewart\*; University of Tennessee, Knoxville, TN.

**Wednesday, February 11, 2009**

**8:00 AM - 12:00 PM**

**III. Turf & Ornamentals**

**Location:** Salon 6

**Chair:** M. J. Goddard\*; Turfgrass Weed Science, Virginia Tech, Blacksburg, VA.

8:00 a.m. – 8:15 a.m

376. **Purple Nutsedge Control with Dismiss (Sulfentrazone) Year 2.** J. W. Marvin\*, L. B. McCarty, A. G. Estes; Horticulture, Clemson University, Clemson, SC.

8:15 a.m. – 8:30 a.m

377. **Yellow Nutsedge and False Green Kyllinga Control in Turf with Amicarbazone, Metsulfuron, and Pyriithiobac Sodium.** T. L. Mittlesteadt\*,<sup>1</sup> J. B. Willis,<sup>2</sup> M. J. Goddard,<sup>1</sup> S. D. Askew<sup>1</sup>; <sup>1</sup>Turfgrass Weed Science, Virginia Tech, Blacksburg, VA, <sup>2</sup>Turfgrass Weed Science, Virginia Tech, Blacksburg, VA.

8:30 a.m. – 8:45 a.m

378. **The Influence of Amicarbazone on Creeping Bentgrass (*Agrostis stolonifera*) Photochemical Efficiency.** H. Perry\*, S. McElroy, R. H. Walker; Auburn Univ., Auburn, AL.

8:45 a.m. – 9:00 a.m

379. **The effect of various rates and timings of amicarbazone on bentgrass cultivar tolerance and annual bluegrass control.** L. S. Warren\*, F. H. Yelverton, T. W. Gannon; North Carolina State University, Raleigh, NC.

9:00 a.m. – 9:15 a.m

380. **Controlling Annual Bluegrass on Greens and Fairways with HM9930.** S. D. Askew\*, J. B. Willis, M. J. Goddard, T. L. Mittlesteadt; Virginia Tech, Blacksburg, VA.

9:15 a.m. – 9:30 a.m

381. **Low Rate Velocity Combinations for Poa Control in Bentgrass.** J. B. Willis\*, M. J. Goddard, S. D. Askew; Turfgrass Weed Science, Virginia Tech, Blacksburg, VA.

9:30 a.m. – 9:45 a.m

382. **Annual Bluegrass Control in Overseeded Bermudagrass Fairways.** A. G. Estes\*, L. McCarty; Clemson University, Clemson, SC.

9:45 a.m. – 10:15 a.m.

### **Break**

**Moderator:** T. L. Mittlesteadt\*; PPWS, Virginia Tech, Blacksburg, VA.

10:15 a.m. – 10:30 a.m

383. **Dormant Applications of Flumioxazine on Container Grown Ornamentals.** A. F. Senesac\*; Cornell Cooperative Extension, Riverhead, NY.

10:30 a.m. – 10:45 a.m

384. **2008 review of ornamental uses for dimethenamid-P granular and liquid formulations.** R. J. Keese\*, C. Judge, K. Kalmowitz, G. Oliver, L. Newsom; BASF Corp, Research Tri Park, NC.

10:45 a.m. – 11:00 a.m

385. **Preemergence Weed Control in Pansy (*Viola × wittrockiana*).** J. F. Derr\*; Hampton Roads AREC, Virginia Tech, Virginia Beach, VA.

11:00 a.m. – 11:15 a.m

386. **Indaziflam/BCS-AA10717-A new Herbicide for Pre-Emergent Control of Grasses and Broadleaf Weeds for Turf and Ornamentals.** D. F. Myers\*,<sup>1</sup> R. Hanrahan,<sup>2</sup> J. Michel,<sup>3</sup> B. Monke,<sup>4</sup> L. Mudge,<sup>5</sup> L. Norton,<sup>6</sup> C. Olsen,<sup>7</sup> A. Parker,<sup>8</sup> J. Smith,<sup>9</sup> D. Spak<sup>10</sup>; <sup>1</sup>Development & Tech Service, Bayer Environmental Science, RTP, NC, <sup>2</sup>Development & Tech Service, Bayer Environmental Science, Englewood, NJ, <sup>3</sup>Development & Tech Service, Bayer Environmental Science, Orlando, FL, <sup>4</sup>Development & Tech Service, Bayer Environmental Science, Overland Park, KS, <sup>5</sup>Development & Tech Service, Bayer Environmental Science, Clemson, SC, <sup>6</sup>Development & Tech Service, Bayer Environmental Science, Bethlehem, PA, <sup>7</sup>Development & Tech Service, Bayer Environmental Science, Wildomar, CA, <sup>8</sup>Development & Tech Service, Bayer Environmental Science, Clayton, NC, <sup>9</sup>Development & Tech Service, Bayer

Environmental Science, Trafalgar, IN, <sup>10</sup>Development & Tech Service, Bayer Environmental Science, Cary, NC.

11:15 a.m. – 11:30 a.m

387. **Seasonal Herbicide Programs for Selective Bermuda-grass Control in Cool-Season Turf.** S. D. Askew\*, J. B. Willis; Virginia Tech, Blacksburg, VA.

11:30 a.m. – 11:45 a.m

388. **Effect of mowing height on bermudagrass (*Cynodon dactylon*) encroachment in tall fescue (*Lolium arundinaceum*).** J. A. Hoyle\*, F. H. Yelverton, T. W. Gannon, L. S. Warren; North Carolina State Univ., Raleigh, NC.

11:45 a.m. – 12:00 p.m

389. **Herbicide Combinations with Flazasulfuron for Broad Spectrum Weed Control in Creeping Bentgrass.** S. D. Askew\*, M. J. Goddard, J. B. Willis; Virginia Tech, Blacksburg, VA.

12:00 p.m. – 1:00 p.m.

**Lunch**

**Wednesday, February 11, 2009**

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

**III. Turf & Ornamentals**

**Location:** Salon 6

**Moderator:** D. F. Lewis\*; Plant Sciences, University of Tennessee, Knoxville, TN.

1:00 p.m. – 1:15 p.m

390. **Flazasulfuron for weed management in warm-season turfgrass.** B. J. Brecke\*, B. Unruh, D. P. Telenko; West Florida Research and Ed. Cent., University of Florida, Jay, FL.

1:15 p.m. – 1:30 p.m

391. **Alleopathic Properties of Overseeded Ryegrass on Bermudagrass Spring Greenup.** R. McCauley,<sup>1</sup> L. B. McCarty\*,<sup>1</sup> H. Liu,<sup>1</sup> J. Toler<sup>2</sup>; <sup>1</sup>Horticulture, Clemson University, Clemson, SC, <sup>2</sup>Applied Economics and Statistics, Clemson University, Clemson, SC.

1:30 p.m. – 1:45 p.m

392. **Plant counts, digital image analysis, and visual ratings for estimating weed control in turf: Are they correlated?** F. H. Yelverton\*, J. A. Hoyle, T. W. Gannon, L. S. Warren; North Carolina State Univ., Raleigh, NC.

1:45 p.m. – 2:00 p.m

393. **Postemergence Control of Khakiweed (*Alternanthera pungens* HBK.) in a Bermudagrass Rough.** G. M. Henry\*, T.

Williams; Plant and Soil Science, Texas Tech University, Lubbock, TX.

2:00 p.m. – 2:15 p.m

394. **Broadleaf weed control with aminocyclopyrachlor (DPX-KJM44) in fine turf.** T. W. Gannon\*,<sup>1</sup> F. H. Yelverton,<sup>1</sup> L. S. Warren,<sup>1</sup> C. A. Silcox<sup>2</sup>; <sup>1</sup>North Carolina State Univ., Raleigh, NC, <sup>2</sup>DuPont Professional Products, Wilmington, DE.

2:15 p.m. – 2:30 p.m

395. **Evaluation of iodomethane as a methyl bromide alternative in turf systems.** J. B. Unruh\*, B. J. Brecke; West Florida Research and Education Center, University of Florida, Jay, FL.

2:30 p.m. – 2:45 p.m

396. **Safety of Mesotrione to New Seedlings of Cool-season Turfgrass.** P. C. Bhowmik\*,<sup>1</sup> D. Sarkar,<sup>1</sup> D. Lycan<sup>2</sup>; <sup>1</sup>Plant, Soil and Insect Sciences, University of Massachusetts, Amherst, MA, <sup>2</sup>Syngenta Crop Protection, Baldwinsville, NY.

2:45 p.m. – 3:00 p.m

397. **Efficacy of sodium chloride salt applications for postemergence grassy weed control in seashore paspalum turf.** J. T. Brosnan\*,<sup>1</sup> J. DeFrank,<sup>2</sup> M. S. Woods,<sup>1</sup> G. K. Breeden<sup>1</sup>; <sup>1</sup>Plant Sciences, University of Tennessee, Knoxville, TN, <sup>2</sup>Tropical Plant and Soil Sciences, University of Hawaii, Honolulu, HI.

3:00 p.m. – 3:15 p.m

398. **Celsius: A new Three-Way Herbicide for Control of Broadleaf Weeds in Warm Season Turf.** D. F. Myers\*,<sup>1</sup> M. Bradley,<sup>2</sup> J. Michel,<sup>3</sup> B. Monke,<sup>4</sup> L. Mudge,<sup>5</sup> L. Norton,<sup>6</sup> C. Olsen,<sup>7</sup> A. Parker,<sup>8</sup> D. Spak<sup>9</sup>; <sup>1</sup>Development & Tech Service, Bayer Environmental Science, RTP, NC, <sup>2</sup>Marketing, Bayer Environmental Science, RTP, NC, <sup>3</sup>Development & Tech Service, Bayer Environmental Science, Orlando, FL, <sup>4</sup>Development & Tech Service, Bayer Environmental Science, Overland Park, KS, <sup>5</sup>Development & Tech Service, Bayer Environmental Science, Clemson, SC, <sup>6</sup>Development & Tech Service, Bayer Environmental Science, Bethlehem, PA, <sup>7</sup>Development & Tech Service, Bayer Environmental Science, Wildomar, CA, <sup>8</sup>Development & Tech Service, Bayer Environmental Science, Clayton, NC, <sup>9</sup>Development & Tech Service, Bayer Environmental Science, Cary, NC.

3:15 p.m. – 3:30 p.m

399. **PENOX SULAM - A new broadleaf herbicide for use in turf.** A. Alexander\*,<sup>1</sup> D. Loughner,<sup>2</sup> M. Melichar,<sup>3</sup> M. Lees<sup>4</sup>; <sup>1</sup>DowAgroSciences, Lawrenceville, GA, <sup>2</sup>DowAgroSciences, Huntington Valley, PA, <sup>3</sup>DowAgroSciences, Indianapolis, IN, <sup>4</sup>DowAgroSciences, Granite Bay, CA.



3:30 p.m. – 3:45 p.m

400. **Post-Emergence Control on Purple Nutsedge.** J. R. Harrell\*, A. Estes, B. McCarty; Clemson University, Clemson, SC.

3:45 p.m. – 4:00 p.m

401. **Shade tolerance of ‘Diamond’ Zoysiagrass managed under putting green conditions with the use of Trinexapacetyl.** J. Atkinson\*, B. McCarty; Clemson University, Clemson, SC.

4:00 p.m. – 4:15 p.m

402. **Annual Bluegrass control with AE 717.** J. L. Jester\*, J. B. Willis, M. J. Goddard, T. L. Mittlesteadt, S. D. Askew; Turfgrass Weed Science, Virginia Tech, Blacksburg, VA.

4:15 p.m. – 4:30 p.m

403. **Ethoxysulfuron for *Kyllinga brevifolia* Rottb. control in Seashore Paspalum.** X. Guang\*, K. Pan; East China Weed Technology Institute, Nanjing, China.

4:30 p.m. – 5:00 p.m.

**Business Meeting**

**Wednesday, February 11, 2009**

**8:00 AM - 12:00 PM**

**IV. Pasture, Range, Forest, & Rights-of-Way**

**Location:** Salon 1

**Chair:** A. W. Ezell\*; Forestry, Miss. State Univ., Miss. State, MS.

8:00 a.m. – 8:15 a.m

404. **Control of multiflora rose.** J. D. Byrd\*, J. M. Taylor; Plant and Soil Sciences, Mississippi State University, Mississippi State, MS.

8:15 a.m. – 8:30 a.m

405. **Technical Introduction of the new DuPont Vegetation Management Herbicide Aminocyclopyrachlor.** R. G. Turner\*,<sup>1</sup> J. S. Claus,<sup>2</sup> E. Hidalgo,<sup>2</sup> M. J. Holliday,<sup>2</sup> G. R. Armel<sup>3</sup>; <sup>1</sup>DuPont Crop Protection, Memphis, TN, <sup>2</sup>DuPont Crop Protection, Wilmington, DE, <sup>3</sup>University of Tennessee, Knoxville, TN.

8:30 a.m. – 8:45 a.m

406. **Evaluation of KJM-44 for marestalk (*Conyza canadensis*) and total vegetation control.** M. Blair\*,<sup>1</sup> Z. Lowe<sup>2</sup>; <sup>1</sup>Plant and Soil Sciences, University of Kentucky, Lexington, KY, <sup>2</sup> Purdue Univ., West Lafayette, IN.

8:45 a.m. – 9:00 a.m

407. **Invasive Weed Management With Aminocyclopyrachlor In The Central Great Plains.** P. Westra\*,<sup>1</sup> S. Nissen,<sup>1</sup> D. Shaner,<sup>2</sup> B. Lindenmayer,<sup>1</sup> G. Brunk<sup>1</sup>; <sup>1</sup>BSPM, Colorado State University, Ft. Collins, CO, <sup>2</sup>BSPM, USDA/ARS, Ft. Collins, CO.

9:00 a.m. – 9:15 a.m

408. **Chaparral: A new herbicide formulation for pasture weed control.** W. N. Kline\*,<sup>1</sup> P. L. Burch,<sup>2</sup> E. S. Hagood,<sup>3</sup> N. Rhodes,<sup>4</sup> J. Ferrell,<sup>5</sup> S. F. Enloe<sup>6</sup>; <sup>1</sup>Dow AgroSciences, Duluth, GA, <sup>2</sup>Dow AgroSciences, Christiansburg, VA, <sup>3</sup>Virginia Tech, Blacksburg, VA, <sup>4</sup>University of Tennessee, Knoxville, TN, <sup>5</sup>University of Florida, Gainesville, FL, <sup>6</sup>Auburn University, Auburn, AL.

9:15 a.m. – 9:30 a.m

409. **Management of pasture weeds with Cleanwave (fluroxypyr + aminopyralid).** J. Ferrell\*, B. Sellers; University of Florida, Gainesville, FL.

9:30 a.m. – 9:45 a.m

410. **Comparisons of the experimental herbicide DPX-KJM44 with aminopyralid for control of key invasive weeds in Tennessee.** G. R. Armel\*,<sup>1</sup> W. E. Klingeman,<sup>1</sup> P. C. Flanagan,<sup>1</sup> G. K. Breeden,<sup>1</sup> M. Halcomb<sup>2</sup>; <sup>1</sup>Plant Sciences, University of Tennessee, Knoxville, TN, <sup>2</sup>Cooperative Extension, University of Tennessee, Knoxville, TN.

9:45 a.m. – 10:15 a.m.

**Break**

10:15 a.m. – 10:30 a.m

411. **Weed and brush control mixes for pasture weed management.** P. L. Burch\*,<sup>1</sup> W. W. Witt,<sup>2</sup> E. S. Hagood,<sup>3</sup> B. B. Sleugh<sup>4</sup>; <sup>1</sup>Dow AgroSciences, Christiansburg, VA, <sup>2</sup>University of Kentucky, Lexington, KY, <sup>3</sup>Virginia Tech, Blacksburg, VA, <sup>4</sup>Dow AgroSciences, Des Moines, IA.

10:30 a.m. – 10:45 a.m

412. **Evaluation of foliar herbicides for greenbrier management in rangeland.** J. Locke\*, E. Funderburg, J. Rogers; Agricultural Division, Samuel Roberts Noble Foundation, Ardmore, OK.

10:45 a.m. – 11:00 a.m

413. **Switchgrass (*Panicum virgatum*) establishment and response to various herbicides.** T. Butler\*, C. Huo; Forage Improvement, The Noble Foundation, Ardmore, OK.

11:00 a.m. – 11:15 a.m

414. **Management of grass and broadleaf weeds in Bermudagrass with DuPont™ Pastora™ herbicide.** E. P. Castner\*,<sup>1</sup> R. N. Rupp,<sup>2</sup> C. F. Grymes,<sup>3</sup> J. H. Meredith,<sup>4</sup> C. M. Alford<sup>5</sup>; <sup>1</sup>DuPont Crop Protection, Weatherford, TX,

<sup>2</sup>DuPont Crop Protection, Edmund, OK, <sup>3</sup>DuPont Crop Protection, Inez, TX, <sup>4</sup>DuPont Crop Protection, Memphis, TN, <sup>5</sup>DuPont Crop Protection, Lakewood, CO.

11:15 a.m. – 11:30 a.m

415. **Utility of sulfosulfuron for grass forage establishment in Florida.** B. A. Sellers\*,<sup>1</sup> J. Ferrell<sup>2</sup>; <sup>1</sup>Range Cattle Research and Education Center and Dept. of Agronomy, University of Florida, Ona, FL, <sup>2</sup>Agronomy, University of Florida, Gainesville, FL.

11:30 a.m. – 11:45 a.m

416. **Efficacy and phytotoxicity of nicosulfuron applied in combination with other herbicides in forage bermudagrass.** G. N. Rhodes\*,<sup>1</sup> M. A. Thompson<sup>2</sup>; <sup>1</sup>Plant Sciences, University of Tennessee, Knoxville, TN, <sup>2</sup>Plant Sciences, University of Tennessee, Jackson, TN.

11:45 a.m. – 12:00 p.m

417. **Evaluation of Kudzu Control Program in Pennsylvania.** M. A. Bravo\*; Weed Science Department, Penn State University/ Penn Dept of Agriculture, Harrisburg, PA.

12:00 p.m. – 1:00 p.m.

**Lunch**

**Wednesday, February 11, 2009**

**1:00 PM - 3:30 PM**

**IV. Pasture, Range, Forest, & Rights-of-Way**

**Location:** Salon 1

**Moderator:** J. L. Yeiser\*; Forestry, Stephen F. Austin State University, Nacogdoches, TX.

1:00 p.m. – 1:15 p.m

418. **Responses of selected woody plants to DPX-KJM44.** R. L. Roten\*, R. J. Richardson, A. P. Gardner; Crop Science, North Carolina State Univ., Raleigh, NC.

1:15 p.m. – 1:30 p.m

419. **Control of selected woody plants with aminopyralid and aminopyralid mixtures.** A. P. Gardner\*, R. J. Richardson, R. L. Roten, S. T. Hoyle; Crop Science, North Carolina State Univ., Raleigh, NC.

1:30 p.m. – 1:45 p.m

420. **Musk thistle control on Oklahoma highway rights-of-way with DPX-KJM44.** C. C. Evans\*, D. P. Montgomery, D. L. Martin; Horticulture, Oklahoma State University, Stillwater, OK.

1:45 p.m. – 2:00 p.m

421. **Preparing Oklahoma and Mississippi loblolly pine sites for planting with Prep It.** J. L. Yeiser\*,<sup>1</sup> A. W. Ezell<sup>2</sup>;

<sup>1</sup>Forestry, Stephen F. Austin State University, Nacogdoches, TX, <sup>2</sup>Forestry, Mississippi State University, Mississippi State, MS.

2:00 p.m. – 2:15 p.m

422. **The use of aminocycloparachlor for site preparation in forestry.** A. W. Ezell\*,<sup>1</sup> J. Yeiser<sup>2</sup>; <sup>1</sup>Forestry, Miss. State Univ., Miss. State, MS, <sup>2</sup>Forestry, Stephen F. Austin State University, Nacogdoches, TX.

2:15 p.m. – 2:30 p.m

423. **Enhancing thinned slash pine volume production and product class distribution with competition control and fertilization on Flatwoods spodosols-six year results.** E. D. Dickens\*,<sup>1</sup> D. J. Moorhead<sup>2</sup>; <sup>1</sup>Warnell School of Forestry and Natural Resources, UGA, Statesboro, GA, <sup>2</sup>Warnell School of Forestry and Natural Resources, UGA, Tifton, GA.

2:30 p.m. – 2:45 p.m

424. **Influence of application timing on the efficacy of Chopper GEN2 in forestry site preparation.** A. W. Ezell\*,<sup>1</sup> J. Yeiser<sup>2</sup>; <sup>1</sup>Forestry, Miss. State Univ., Miss. State, MS, <sup>2</sup>Forestry, Stephen F. Austin State University, Nacogdoches, TX.

2:45 p.m. – 3:00 p.m

425. **Potential New Herbicides to add to Mississippi Department of Transportation's Approved Product List.** R. S. Wright\*, J. D. Byrd; Plant and Soil Sciences, Mississippi State University, Mississippi State, MS.

3:00 p.m. – 3:30 p.m.

**Business Meeting**

**Wednesday, February 11, 2009**

**8:00 AM - 12:00 PM**

**SWSS - Ph.D. Oral Paper Contest**

**Location:** International Center

8:00 a.m. – 8:15 a.m

426. **Breeding For Weed Suppressiveness: An Initial Approach To Soybean Genotype Screening.** G. T. Place\*, T. E. Carter, S. C. Reberg-Horton; Crop Science, North Carolina State University, Raleigh, NC.

8:15 a.m. – 8:30 a.m

427. **Comparison of Subsurface and Foliar Herbicide Applications for Control of Parrotfeather (*Myriophyllum aquaticum* Vell. Verdc.).** R. M. Wersal\*, J. D. Madsen; GeoResources Institute, Mississippi State University, Mississippi State, MS.

8:30 a.m. – 8:45 a.m

428. **Management of creeping rivergrass in rice production.** S. L. Bottoms\*, E. P. Webster, J. B. Hensley, T. P. Carlson; Agronomy and Environmental Management, Louisiana State University, Baton Rouge, LA.

8:45 a.m. – 9:00 a.m

429. **Influence of henbit (*Lamium amplexicaule*) and other winter weeds on overwintering and early-season buildup of twospotted spider mite (*Tetranychus urticae*) in cotton.** J. F. Smith\*, A. L. Catchot, F. R. Musser; Department of Entomology and Plant Pathology, Mississippi State University, Starkville, MS.

9:00 a.m. – 9:15 a.m

430. **Allyl isothiocyanate as a methyl bromide alternative in tomato.** S. K. Bangarwa\*, J. K. Norsworthy, J. Still, G. M. Griffith, L. E. Estorninos; Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR.

9:15 a.m. – 9:30 a.m

431. **Italian ryegrass cross resistance to two ACCase inhibiting wheat herbicides.** A. T. Ellis\*,<sup>1</sup> T. C. Mueller,<sup>1</sup> C. L. Main<sup>2</sup>; <sup>1</sup>Plant Sciences, University of Tennessee, Knoxville, TN, <sup>2</sup>Plant Sciences, University of Tennessee, Jackson, TN.

9:30 a.m. – 9:45 a.m

432. **Effect of simulated herbivory on growth and final biomass of the aquatic weed hygrophila, *Hygrophila polysperma* (Roxb.) T. Anders (Acanthaceae).** A. Mukherjee\*,<sup>1</sup> D. Okine,<sup>1</sup> J. P. Cuda,<sup>1</sup> W. A. Overholt,<sup>2</sup> W. T. Haller<sup>3</sup>; <sup>1</sup>Entomology and Nematology, University of Florida, Gainesville, FL, <sup>2</sup>Entomology and Nematology, Biological Control Research and Containment Laboratory, University of Florida, Fort Pierce, FL, <sup>3</sup>Agronomy, Center for Aquatic and Invasive Plants, University of Florida, Gainesville, FL.

9:45 a.m. – 10:15 a.m.

**Break**

10:15 a.m. – 10:30 a.m

433. **Texasweed (*Caperonia palustris*) interference in drill-seeded rice.** R. K. Godara\*, B. J. Williams, S. L. Angel; LSU AgCenter, Louisiana State University, Baton Rouge, LA.

10:30 a.m. – 10:45 a.m

434. **Mapping aquatic vegetation using scouting data from citizen volunteers.** B. R. Lassiter\*, R. J. Richardson, G. G. Wilkerson, J. Johnson; Crop Science, North Carolina State University, Raleigh, NC.

10:45 a.m. – 11:00 a.m

435. **Investigations into suspected multiple resistance of horseweed (*Conyza canadensis*) to glyphosate and paraquat.** T. W. Eubank\*,<sup>1</sup> D. R. Shaw,<sup>2</sup> V. K. Nandula,<sup>1</sup> C. H. Koger,<sup>1</sup> J. H. Massey,<sup>2</sup> D. H. Poston<sup>3</sup>; <sup>1</sup>Miss. State University, Stoneville, MS, <sup>2</sup>Miss. State University, Miss. State, MS, <sup>3</sup>Pioneer Hi-Bred, Inc, Leland, MS.

11:00 a.m. – 11:15 a.m

436. **Cultural and Chemical Methods to Improve Perennial Ryegrass Establishment in Dense Bermudagrass.** T. L. Mittlesteadt\*, M. J. Goddard, J. B. Willis, S. D. Askew; Turfgrass weed science, Virginia Tech, Blacksburg, VA.

11:15 a.m. – 11:30 a.m

437. **Improving Creeping Bentgrass Infested Turf with Mesotrione and Seeding.** M. J. Goddard\*, J. B. Willis, S. D. Askew; Turfgrass Weed Science, Virginia Tech, Blacksburg, VA.

**Wednesday, February 11, 2009**

**1:00 PM - 3:30 PM**

**X. Biocontrol of Weeds**

**Location:** International Center

**Chair:** J. P. Cuda\*; Entomology & Nematology, University of Florida, Gainesville, FL.

1:00 p.m. – 1:15 p.m

438. **Integrated use of bioactive, green, and plastic mulches to suppress *Cyperus rotundus* and *C. esculentus* in tomato.** Y. M. Shabana\*,<sup>1</sup> E. Roskopf,<sup>2</sup> A. Abou Tabl,<sup>1</sup> R. Charudattan,<sup>1</sup> J. P. Morales-Payan,<sup>3</sup> W. Klassen<sup>4</sup>; <sup>1</sup>Plant Pathology, University of Florida, Gainesville, FL, <sup>2</sup>USDA, ARS, USHRL, Fort Pierce, FL, <sup>3</sup>Horticulture, University of Puerto Rico-Mayaguez, Mayaguez, Puerto Rico, <sup>4</sup>Tropical REC, University of Florida, Homestead, FL.

1:15 p.m. – 1:30 p.m

439. **Bioherbicidal potential of volatile oil from redstem wormwood (*Artemisia scoparia*) against coffee weed (*Cassia occidentalis*) and slender amaranth (*Amaranthus viridis*).** S. Mittal\*,<sup>1</sup> H. P. Singh,<sup>1</sup> R. K. Kohli,<sup>1</sup> D. R. Batish<sup>2</sup>; <sup>1</sup>Centre for Environment Studies, Panjab University, Chandigarh, India, <sup>2</sup>Department of Botany, Panjab University, Chandigarh, India.

1:30 p.m. – 1:45 p.m

440. **Mechanisms Causing Sudangrass Suppression of Canada Thistle.** J. B. Masiunas\*, A. Bicksler; Natural

Resources and Environmental Sciences, University of Illinois, Urbana, IL.

1:45 p.m. – 2:00 p.m

441. **Status And Need For Biological Control Research For The Management Of Parthenium Hysterophorus (L). In India.** P. Ray\*,<sup>1</sup> A. K. Pandey,<sup>2</sup> D. Ray<sup>2</sup>; <sup>1</sup>Division of Entomology, Tropical Forest Research Institute, Jabalpur, India, <sup>2</sup>Mycological Research Laboratory, Dept. of Biological Science, R.D. University, Jabalpur, India.

2:00 p.m. – 2:15 p.m

442. **Improved host-range evaluation of plant pathogens for classical biological control of invasive weeds.** D. K. Berner, W. L. Bruckart\*, C. A. Cavin, J. L. Michael; Foreign Disease-Weed Science Research Unit, USDA-ARS, Ft. Detrick, MD.

2:15 p.m. – 2:30 p.m

443. **Development of biological control of giant reed (*Arundo donax*) in the Rio Grande Basin of Texas and Mexico.** P. J. Moran\*, J. A. Goolsby; Beneficial Insects Research Unit, USDA-ARS, Weslaco, TX.

2:30 p.m. – 2:45 p.m

444. **The interactions of Tropical soda apple mosaic tobamovirus and *Gratiana boliviana* (Coleoptera: Chrysomelidae), an introduced biological control agent of tropical soda apple (*Solanum viarum*).** W. A. Overholt\*,<sup>1</sup> L. Markle,<sup>1</sup> E. N. Roskopf,<sup>2</sup> V. Manrique,<sup>1</sup> J. Albano,<sup>2</sup> E. Cave,<sup>1</sup> S. Adkins<sup>2</sup>; <sup>1</sup>Indian River Research and Education Center, University of Florida, Fort Pierce, FL, <sup>2</sup>USDA/ARS, Fort Pierce, FL.

2:45 p.m. – 3:15 p.m.

**Business Meeting**

**Wednesday, February 11, 2009**

**1:00 p.m. – 3:00 p.m.**

**Poster Discussion Session – Cotton and Peanut Weed Control**

**Location: Salons 2 & 3**

**See Posters 123 – 134**

**Wednesday, February 11, 2009**

**1:00 p.m. – 3:00 p.m.**

**Poster Discussion Session – Rice Weed Control**

**Location: Salons 7 & 8**

**See Posters 135 – 146**

**Thursday, February 12, 2009**  
**8:00 AM - 12:00 PM**  
**Symposium: Technology Innovations**  
**in Weed Science Communication**

**Location:** International South

**Chair:** C. L. Brommer\*; Biology, Emory University, Atlanta, GA

**Chair:** J. Ferrell\*; University of Florida, Gainesville, FL.

8:00 a.m. – 9:00 a.m

**445. Agricultural Communications In A New Media World.** C. Zimmerman\*; ZimmComm New Media, Holt Summit, MO.

9:00 a.m. – 9:45 a.m.

**Discussion**

9:45 a.m. – 10:15 a.m.

**Break**

10:15 a.m. – 11:00 a.m

**446. Round Table And Panel Discussion: Pod Casting And “New Media” Best Management Practices For You And Your Audience.** C. L. Brommer\*,<sup>1</sup> J. Ferrell,<sup>2</sup> M. Bridges,<sup>3</sup> V. Davis,<sup>4</sup> Z. Shappley,<sup>5</sup> T. Sterling<sup>6</sup>; <sup>1</sup>Emory University, Atlanta, GA, <sup>2</sup>University of Florida, Gainesville, FL, <sup>3</sup>Colorado State University, Fort Collins, CO, <sup>4</sup>Purdue University, West Lafayette, IN, <sup>5</sup>Monsanto, St. Louis, MO, <sup>6</sup>New Mexico State University, Las Cruces, NM.

11:00 a.m. – 11:30 a.m.

**Discussion**

11:30 a.m. – 12:00 p.m

**447. Web 2.0 And The Future Of Your Teaching, Research, And Extension Communications.** C. L. Brommer\*; Emory University, Atlanta, GA.

**Thursday, February 12, 2009**  
**12:00 PM - 3:00 PM**  
**Symposium: New Directions in Weed Population**  
**& Community Modeling**

**Location:** International South

**Chair:** E. Luschei\*; Agronomy, University of Wisconsin - Madison, Madison, WI

**Chair:** A. Davis\*; USDA-ARS, Urbana, IL.



12:00 p.m. – 12:30 p.m

448. **Linking the farmers' perception and weed management behavior with actual on-farm weed pressure.** M. M. Riemens\*,<sup>1</sup> R. Y. van der Weide<sup>2</sup>; <sup>1</sup>Wageningen University and Research Centre, Plant Research International, Wageningen, Netherlands, <sup>2</sup>Wageningen University and Research Centre, Applied Plant Research, Lelystad, Netherlands.

12:30 p.m. – 1:00 p.m

449. **Best management practices in a world of risks and constraints.** J. L. Gunsolus\*; University of Minnesota, St. Paul, MN.

1:00 p.m. – 1:30 p.m

450. **Investigating the Human Dimension of Weed Management - New Tools of the Trade.** D. Doohan\*,<sup>1</sup> R. Wilson<sup>2</sup>; <sup>1</sup>The Ohio State University, Wooster, OH, <sup>2</sup>The Ohio State University, Columbus, OH.

1:30 p.m. – 2:00 p.m

451. **Concepts and Tools for collaborative Weed Demographic Modeling.** N. Holst\*; Aarhus University, Slagelse, Denmark.

2:00 p.m. – 2:30 p.m

452. **From Models and Databases to Decision Support: Learning from Success.** L. J. Wiles\*,<sup>1</sup> G. Dunn,<sup>2</sup> D. Krueger<sup>3</sup>; <sup>1</sup>USDA-ARS-WMR, Fort Collins, CO, <sup>2</sup>USDA-ARS-ASR, Fort Collins, CO, <sup>3</sup>AgRenaissance Software LLC, Raleigh, NC.

2:30 p.m. – 3:00 p.m

453. **New Directions in the Modeling of Weed-Crop Interactions.** R. G. Smith\*, D. A. Mortensen, M. R. Ryan; The Pennsylvania State University, University Park, PA.

**Thursday, February 12, 2009**

**8:00 a.m. – 10:00 a.m.**

**Poster Discussion Session – Pasture and Rangeland Weed Control**

**Location: Salons 2 & 3**

**See Posters 147 – 158**

**Thursday, February 12, 2009**

**8:00 a.m. – 10:00 a.m.**

**Poster Discussion Session – Pasture and Wildland Weed Control**

**Location: Salons 7 & 8**

**See Posters 182 – 193**

**Thursday, February 12, 2009**  
**10:00 a.m. – 12:00 noon**  
**Poster Discussions Session – Biological**  
**Weed Control**  
**Location: Salons 2 & 3**  
**See Posters 159 – 169**

**Thursday, February 12, 2009**  
**10:00 a.m. – 12:00 noon**  
**Poster Discussion Session – Soil, Climate**  
**and Weed Biology**  
**Location: Salons 7 & 8**  
**See Posters 194 – 204**

**Thursday, February 12, 2009**  
**8:00 AM - 12:00 PM**  
**I. Agronomic Crops**

**Location:** International Center

**Moderator:** R. Bond\*; Weed Science, Mississippi State University, Stoneville, MS.

8:00 a.m. – 8:15 a.m

454. **Twenty years of university corn yield data: with and without atrazine.** R. S. Fawcett\*; Fawcett Consulting, Huxley, IA.

8:15 a.m. – 8:30 a.m

455. **Weed control, environmental impact and profitability of weed management options in glyphosate-tolerant corn.** P. Sikkema\*, N. Soltani, R. J. Vyn, L. L. Van Eerd, C. Shropshire; Ridgetown Campus, University of Guelph, Ridgetown, ON, Canada.

8:30 a.m. – 8:45 a.m

456. **Total PRE and Total POST Weed Control Programs for Arkansas Corn (*Zea mays*).** J. A. Bullington\*, K. L. Smith, R. C. Doherty, J. R. Meier; Divison of Agriculture, University of Arkansas, Monticello, AR.

8:45 a.m. – 9:00 a.m

457. **Broadleaf Signalgrass (*Bracharla platyphylla*) Control with Early Pre Plant Applications in No-Till and Conventional Tillage Corn.** M. E. Kurtz\*,<sup>1</sup> Y. Yamaji,<sup>2</sup> Y. T. DeLoach<sup>1</sup>; <sup>1</sup>Mississippi Research Station, K-I Chemical USA Inc., Leland, MS, <sup>2</sup>K-I Chemical USA Inc., White Plains, NY.

9:00 a.m. – 9:15 a.m

458. **One-Shot Weed Control Programs in Corn.** L. R. Oliver\*,<sup>1</sup> K. L. Smith,<sup>2</sup> M. T. Bararpour,<sup>1</sup> F. H. Lyons,

IV<sup>1</sup>; <sup>1</sup>Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR, <sup>2</sup>Southeast Research and Extension Center, University of Arkansas Monticello, Monticello, AR.

9:15 a.m. – 9:30 a.m

459. **Weed management in corn and sorghum with saflufenacil.** C. A. Judge\*, S. J. Bowe, L. D. Charvat, T. D. Klingaman, W. E. Thomas; BASF, Research Triangle Park, NC.

9:30 a.m. – 9:45 a.m

460. **Delayed weed removal and nitrogen stress in glyphosate-resistant corn.** C. L. Smith\*,<sup>1</sup> R. J. Smeda,<sup>2</sup> P. C. Scharf<sup>2</sup>; <sup>1</sup>Mississippi State University, Starkville, MS, <sup>2</sup>University of Missouri, Columbia, MO.

9:45 a.m. – 10:15 a.m.

**Break**

10:15 a.m. – 10:30 a.m

461. **DuPont Herbicides with Multiple Modes of Action and Flexible Utility for use on Optimum® GAT® Corn and Soybean.** D. W. Saunders\*, H. Flanigan, M. Holm, K. Hahn, L. H. Hageman, W. J. Schumacher; DuPont Crop Protection, Johnston, IA.

10:30 a.m. – 10:45 a.m

462. **Weed Control in Optimum GAT Corn and Soybean in Mississippi.** J. T. Irby\*, D. B. Reynolds; Plant & Soil Sciences, Mississippi State University, Mississippi State, MS.

10:45 a.m. – 11:00 a.m

463. **Optimum® GAT® herbicide programs as tools for managing ALS and/or glyphosate resistant weeds.** R. Forney\*,<sup>1</sup> D. W. Saunders,<sup>2</sup> J. Beitler,<sup>1</sup> S. D. Strachan<sup>1</sup>; <sup>1</sup>DuPont Crop Protection, Newark, DE, <sup>2</sup>DuPont Crop Protection, Johnston, IA.

11:00 a.m. – 11:15 a.m

464. **University trials with Optimum® GAT® herbicides in 2008.** S. K. Rick\*, M. T. Edwards, J. D. Harbour, D. W. Saunders; DuPont Crop Protection, Johnston, IA.

11:15 a.m. – 11:30 a.m

465. **Wide row lupin (*Lupinus angustifolius*) systems may sustain lupin production in Western Australia.** A. Hashem\*,<sup>1</sup> M. Collins,<sup>2</sup> D. Bowran,<sup>1</sup> P. Blackwell<sup>3</sup>; <sup>1</sup>Centre for Cropping Systems, Department of Agriculture and Food Western Australia, Northam, WA 6155, Australia, <sup>2</sup>Lot 12 York Road, WANTFA, Northam, WA 6155, Australia, <sup>3</sup>PO Box 110, Department of Agriculture and Food Western Australia, Geraldton, WA 6531, Australia.

11:30 a.m. – 11:45 a.m

466. **Evaluation of Grain Sorghum Sensitivity to Soil Applied Lumax.** M. J. Urwiler\*,<sup>1</sup> C. Nichols,<sup>2</sup> V. Lengkeek,<sup>3</sup> G. Vail<sup>4</sup>; <sup>1</sup>Syngenta Crop Protection, Lubbock, TX, <sup>2</sup>Syngenta Crop Protection, Lenexa, KS, <sup>3</sup>Syngenta Crop Protection, St. Johns, MI, <sup>4</sup>Syngenta Crop Protection, Greensboro, NC.

11:45 a.m. – 12:00 p.m

467. **Potential Use of EPTC in Sugarcane.** J. Mite\*, J. L. Griffin; School of Plant, Environmental, and Soil Sciences, Louisiana State University, Baton Rouge, LA.

12:00 p.m. – 1:00 p.m.

**Lunch**

**Thursday, February 12, 2009**

**1:00 PM - 3:00 PM**

**I. Agronomic Crops**

**Location:** International Center

1:00 p.m. – 1:15 p.m

468. **Male:Female Ratios in *Palmer Amaranth* as Influenced by Glyphosate Induced Stress.** R. C. Doherty\*, K. L. Smith, J. A. Bullington, J. R. Meier; Southeast Research and Extension Center, University of Arkansas, Monticello, AR.

1:15 p.m. – 1:30 p.m

469. **Increasing winter rye and Italian ryegrass control options with crop rotation.** J. A. Bushong\*, T. F. Peeper; Plant and Soil Sciences, Oklahoma State University, Stillwater, OK.

1:30 p.m. – 1:45 p.m

470. **Site Specific Weed Management (SSWM) - southern Australian potential with annual ryegrass (*Lolium rigidum*).** S. P. Trengove\*,<sup>1</sup> C. Preston,<sup>1</sup> J. Heap,<sup>2</sup> A. H. Mayfield<sup>3</sup>; <sup>1</sup>School of Agriculture, Food & Wine, University of Adelaide, Adelaide, Australia, <sup>2</sup>South Australian Research and Development Institute, Adelaide, Australia, <sup>3</sup>Allan Mayfield Consulting, Clare, Australia.

1:45 p.m. – 2:00 p.m

471. **Ryegrass tolerance to herbicides under field conditions.** R. G. Haxton\*, T. F. Peeper, A. E. Stone; Plant and Soil Sciences, Oklahoma State University, Stillwater, OK.

2:00 p.m. – 2:15 p.m

472. **The Influence of Application Variables on the Foliar Efficacy of Saflufenacil on Horseweed (*Conyza canadensis*).** T. G. Mellendorf\*; Plant, Soil and Agricultural Systems, Southern Illinois University, Carbondale, IL.

2:15 p.m. – 2:30 p.m

473. **Syngenta and university generated data.** J. C. Sanders\*,<sup>1</sup> T. H. Beckett,<sup>1</sup> H. H. McLean,<sup>2</sup> B. W. Minton,<sup>3</sup> J. C. Holloway<sup>4</sup>; <sup>1</sup>Syngenta Crop Protection, Greensboro, NC, <sup>2</sup>Syngenta Crop Protection, Perry, GA, <sup>3</sup>Syngenta Crop Protection, Cypress, TX, <sup>4</sup>Syngenta Crop Protection, Jackson, TN.

2:30 p.m. – 2:45 p.m

474. **Dicamba: adding value to weed management in glyphosate and dicamba tolerant cropping systems.** D. Sanyal\*, S. Prosch, D. Edgecomb, B. Bussler; Monsanto Company, St. Louis, MO.

2:45 p.m. – 3:00 p.m

475. **Introduction to Wolverine - A new herbicide for grass and broadleaf weed control in Northern Plains cereals.** M. D. Paulsgrove\*, J. McGregor, D. W. Maruska, K. B. Thorsness, M. C. Smith; Product Development, Bayer CropScience, RTP, NC.

**Thursday, February 12, 2009**

**8:00 AM - 12:00 PM**

**II. Horticultural Crops**

**Location:** Salon 1

**Chair:** C. L. Webber\*; USDA, ARS, SCARL, Lane, OK.

8:00 a.m. – 8:15 a.m

476. **Weed community changes with cover crops and crop rotation in organic vegetable production.** M. Bhan\*, C. A. Chase; Horticultural Science, University of Florida, Gainesville, FL.

8:15 a.m. – 8:30 a.m

477. **Comparison of organic weed management strategies in sweet corn and snap beans for processing.** H. Johnson\*, J. Colquhoun, R. Rittmeyer; Horticulture, University of Wisconsin, Madison, WI.

8:30 a.m. – 8:45 a.m

478. **A precision guided, shielded propane flamer for postemergence weed control in vegetable crops.** C. M. Herrmann\*, B. H. Zandstra, R. V. Tocco; Horticulture, Michigan State University, East Lansing, MI.

8:45 a.m. – 9:00 a.m

479. **Stale seedbeds for cucumber and green pea production: do they help?** T. W. Miller\*; Washington State University, Mount Vernon, WA.

9:00 a.m. – 9:15 a.m

480. **Differences in Clomazon Tolerance in Sweetpotato Clones.** H. F. Harrison\*; U.S. Vegetable Laboratory, USDA/ARS, Charleston, SC.

9:15 a.m. – 9:30 a.m

481. **Differences in Clomazone Tolerance among Sweetpotato Varieties.** H. F. Harrison\*, D. M. Jackson; U.S. Vegetable Laboratory, USDA/ARS, Charleston, SC.

9:30 a.m. – 9:45 a.m

482. **Vegetable response to EPTC under various plastic mulches.** R. D. Wallace\*,<sup>1</sup> S. Culpepper,<sup>1</sup> A. MacRae,<sup>2</sup> L. Sosnoskie,<sup>1</sup> T. Grey<sup>1</sup>; <sup>1</sup>Crop and Soil Sciences, University of Georgia, Tifton, GA, <sup>2</sup>Horticulture, University of Florida, Wimauma, FL.

9:45 a.m. – 10:15 a.m.

**Break**

10:15 a.m. – 10:30 a.m

483. **Evaluation of the tolerance of four tomato types to EPTC applied under metalized and VIF mulch.** A. W. MacRae\*, R. O. Kelly; Gulf Coast Research and Education Center, University of Florida, Wimauma, FL.

10:30 a.m. – 10:45 a.m

484. **Performance of methyl bromide alternatives for weed control.** E. N. Rosskopf\*,<sup>1</sup> N. Kokalis-Burelle,<sup>1</sup> F. B. Iriarte<sup>2</sup>; <sup>1</sup>USDA, ARS, Fort Pierce, FL, <sup>2</sup>Iowa State University, Ames, IA.

10:45 a.m. – 11:00 a.m

485. **Weed management with non-fumigant treatments in strawberry.** S. A. Fennimore\*, J. B. Weber, J. Samtani; Plant Sciences, University of California Davis, Salinas, CA.

11:00 a.m. – 11:15 a.m

486. **Solarization and Steam Heat for Soil Disinfestation in Flower and Strawberry.** C. A. Gilbert\*,<sup>1</sup> S. A. Fennimore,<sup>2</sup> K. Subbarao,<sup>2</sup> R. Goodue,<sup>1</sup> J. B. Weber<sup>2</sup>; <sup>1</sup>Plant Science, University of California, Davis, Davis, CA, <sup>2</sup>Plant Science, University of California, Davis, Salinas, CA.

11:15 a.m. – 11:30 a.m

487. **Tolerance of Strawberry Cultivars to Terbacil, Sulfentrazone and Flumioxazin.** D. Doohan\*, T. Koch; Horticulture and Crop Science, The Ohio State University, Wooster, OH.

11:30 a.m. – 11:45 a.m

488. **Biology and management of Maryland Meadowbeauty with flumioxazin in blueberry.** M. M. Roberts\*, K. M. Jennings, D. W. Monks; Horticultural Science, North Carolina State University, Raleigh, NC.

11:45 a.m. – 12:00 p.m

489. **Perennial weed management with Mesotrione in wild blueberry.** N. S. Boyd\*; Environmental Science, Nova Scotia Agricultural College, Truro, NS, Canada.

12:00 p.m. – 1:00 p.m.

**Lunch**

**Thursday, February 12, 2009**

**1:00 PM - 3:30 PM**

## **II. Horticultural Crops**

**Location:** Salon 1

1:00 p.m. – 1:15 p.m.

490. **The IR-4 Project: Update on Weed Control Projects.** M. Arsenovic\*, D. L. Kunkel, J. J. Baron; IR-4 Project, Rutgers University, Princeton, NJ.

1:15 p.m. – 1:30 p.m

491. **Effect of vegetation-free area and irrigation on newly planted peach.** J. K. Buckelew\*, D. W. Monks, W. E. Mitchem, K. M. Jennings; North Carolina State University, Raleigh, NC.

1:30 p.m. – 1:45 p.m

492. **Purple nutsedge (*Cyperus rotundus*) management in orchards after two years of treatment with sulfentrazone, halosulfuron, and terbacil.** W. E. Mitchem\*,<sup>1</sup> W. G. Henderson,<sup>2</sup> D. W. Monks,<sup>1</sup> K. M. Jennings<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>Clemson University, Clemson, SC.

1:45 p.m. – 2:00 p.m

493. **Control of Kochia with DPX-KJM44 along Oklahoma Highway Rights-of-way.** D. Montgomery\*, C. Evans, D. Martin; Horticulture & Landscape Architecture, Oklahoma State University, Stillwater, OK.

2:00 p.m. – 2:15 p.m

494. **Influence of weed control practices on production and arthropod diversity in a Zinfandel vineyard in the Central Coast of California.** R. G. Leon\*,<sup>1</sup> P. P. Sanguaneko<sup>2</sup>; <sup>1</sup>EARTH University, San Jose, Costa Rica, <sup>2</sup>California Polytechnic State University, San Luis Obispo, CA.

2:15 p.m. – 2:30 p.m

495. **Improved asparagus weed control with flumioxazin and mesotrione.** B. H. Zandstra\*, C. M. Herrmann, R. V. Tocco; Horticulture, Michigan State University, East Lansing, MI.

2:30 p.m. – 2:45 p.m

496. **Evaluation of preemergence herbicides for lettuce**

**production.** P. J. Dittmar\*, K. M. Jennings, B. Jester, D. W. Monks; Department of Horticultural Science, North Carolina State University, Raleigh, NC.

2:45 p.m. – 3:00 p.m

**497. Postemergence Annual Bluegrass Control and Preemergence Crabgrass Control with February Application.** R. Blanton\*; Entomology, Soils & Plant Sci, Clemson University, Clemson, SC.

3:00 p.m. – 3:30 p.m.

**Business Meeting**

**Thursday, February 12, 2009**

**1:00 p.m. – 3:00 p.m.**

**Poster Discussion Session – Formulations  
and Interactions**

**Location: Salons 2 & 3**

**See Posters 170- 181**

**Thursday, February 12, 2009**

**1:00 p.m. – 3:00 p.m.**

**Poster Discussion Session – Turf and  
Ornamental Weed Control**

**Location: Salons 7 & 8**

**See Posters 205 – 216**

**Friday, February 13, 2009**

**8:00 a.m. – 10:00 a.m.**

**Poster Discussion Session – Integrated Weed  
Management, Teaching, and Surveys**

**Location: Salon 2**

**See Posters 217 – 228**

**Friday, February 13, 2009**

**10:00 a.m. – 12:00 noon**

**Poster Discussion Session – Weed Resistance  
and Management**

**Location: Salon 2**

**See Posters 229 - 240**

**Friday, February 13, 2009**

**8:00 AM - 12:00 PM**

**Symposium: Non-Herbicide Uses of Herbicides**

**Location:** Salon 7

**Chair:** S. O. Duke\*; NPURU, USDA, ARS, University, MS.



8:00 a.m. – 8:30 a.m

498. **Herbicides as mycoherbicide synergists.** J. Gressel\*; Weizmann Institute of Science, Rehovot, Israel.

8:30 a.m. – 9:00 a.m

499. **Herbicides as Ripeners for Sugarcane.** E. P. Richard\*, C. D. Dalley, R. P. Viator; USDA-ARS-SRRC Sugarcane Research Unit, Houma, LA.

9:00 a.m. – 9:30 a.m

500. **Pharmaceutical uses of herbicides and closely related compounds.** S. O. Duke\*; USDA, ARS, University, MS.

9:30 a.m. – 10:30 a.m

501. **Glyphosate activity on plant diseases and potential impact on plant health and yield in Roundup Ready® cropping systems.** F. Kohn\*, M. South, K. Kretzmer, W. Duncan, G. Bogosian, P. Morris; Monsanto Co., Saint Louis, MO.

10:30 a.m. – 11:00 a.m

502. **Uses of herbicides to study plant biochemistry and physiology.** F. E. Dayan\*; USDA-ARS, University, MS.

11:00 a.m. – 11:30 a.m

503. **Herbicides as growth regulators.** E. D. Velini\*,<sup>1</sup> M. L. Trindade,<sup>1</sup> S. O. Duke<sup>2</sup>; <sup>1</sup>São Paulo State University, Botucatu, Brazil, <sup>2</sup>NPURU - ARS, USDA, Oxford, MS.

11:30 a.m. – 12:00 p.m

504. **Herbicides as Harvest Aids.** J. L. Griffin\*; Louisiana State University, Baton Rouge, LA.

## **Friday, February 13, 2009**

**8:00 AM - 12:00 PM**

### **I. Agronomic Crops**

**Location:** International Center

8:00 a.m. – 8:15 a.m

505. **Early-season applications of chlorimuron for weed control in peanut: are the benefits worth the risk?** W. C. Johnson\*; Crop Protection and Management Research Unit, USDA-ARS, Tifton, GA.

8:15 a.m. – 8:30 a.m

506. **Effect of hairy nightshade in the epidemiology of potato viruses and the biology of aphid vectors in Idaho.** J. M. Alvarez\*; PSES, University of Idaho, Aberdeen, ID.

8:30 a.m. – 8:45 a.m

507. **Input reduction impacts on weeds and crop yields in barley (*Hordeum vulgare*) and canola (*Brassica napus*).** N. Harker\*,<sup>1</sup> S. Brandt,<sup>2</sup> E. Johnson,<sup>2</sup> J. O'Donovan,<sup>1</sup> R.

Blackshaw,<sup>3</sup> K. Turkington,<sup>1</sup> R. Kutcher<sup>4</sup>; <sup>1</sup>Agriculture & Agri-Food Canada, Lacombe, AB, Canada, <sup>2</sup>Agriculture & Agri-Food Canada, Scott, SK, Canada, <sup>3</sup>Agriculture & Agri-Food Canada, Lethbridge, AB, Canada, <sup>4</sup>Agriculture & Agri-Food Canada, Melfort, SK, Canada.

8:45 a.m. – 9:00 a.m

508. **Response of 98140 Corn (*Zea mays*) with *gat4621* and *hra* Transgenes to Glyphosate and ALS-Inhibiting Herbicides.** J. M. Green\*,<sup>1</sup> T. Hale,<sup>1</sup> M. A. Pagano,<sup>1</sup> J. L. Andreassi,<sup>2</sup> S. A. Gutteridge<sup>2</sup>; <sup>1</sup>Herbicide Trait Discovery and Gene Shuffling, Pioneer Hi-Bred International, Inc., Newark, DE, <sup>2</sup>Chemical Genomics, DuPont Crop Protection, Newark, DE.

9:00 a.m. – 9:15 a.m

509. **Alfalfa forage and seed crop tolerance to flumioxazin.** R. Boydston\*; USDA-ARS, Prosser, WA.

9:15 a.m. – 9:30 a.m

510. **Burndown Weed Control with BAS 800H as Influenced by the Type of Adjuvant.** S. Knezevic\*,<sup>1</sup> J. Scott,<sup>1</sup> L. Charvat<sup>2</sup>; <sup>1</sup>UNL, Concord, NE, <sup>2</sup>BASF, Lincoln, NE.

9:30 a.m. – 9:45 a.m

511. **Rapid herbicide resistance evolution in *Lolium* from recurrent selection at reduced rate of diclofop-methyl in a wheat crop (and lab).** S. Manalil Velayudhan\*, R. Busi, S. B. Powles; Western Australian Herbicide Resistance Initiative, University of Western Australia, Perth-WA, Australia.

9:45 a.m. – 10:15 a.m.

**Break**

10:15 a.m. – 10:30 a.m

512. **Performance of GlyTol and GlyTol + LibertyLink cotton technologies in the US.** G. Henniger\*,<sup>1</sup> S. Baker,<sup>2</sup> M. Rinehardt,<sup>3</sup> R. Humphries,<sup>4</sup> L. Trolinder-Wright,<sup>1</sup> J. Holloway<sup>1</sup>; <sup>1</sup>BioScience Development, Bayer CropScience, Lubbock, TX, <sup>2</sup>BioScience Development, Bayer CropScience, Memphis, TN, <sup>3</sup>BioScience Development, Bayer CropScience, Sellers, SC, <sup>4</sup>BioScience Development, Bayer CropScience, Shafter, CA.

10:30 a.m. – 10:45 a.m

513. **Grower's Perceptions on Herbicide Resistance Management Strategies Based on Experience with Herbicide Resistant Weeds.** W. Givens\*,<sup>1</sup> D. Shaw,<sup>1</sup> M. Newman,<sup>1</sup> W. Johnson,<sup>2</sup> S. Weller,<sup>2</sup> B. Young,<sup>3</sup> R. Wilson,<sup>4</sup> M. Owen,<sup>5</sup> D. Jordan<sup>6</sup>; <sup>1</sup>Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, <sup>2</sup>Purdue University, West Lafayette, IN, <sup>3</sup>Southern Illinois University, Carbondale, IL, <sup>4</sup>University of Nebraska, Scotts Bluff, NE, <sup>5</sup>Iowa State University, Ames, IA, <sup>6</sup>North Carolina State University, Raleigh, NC.

10:45 a.m. – 11:00 a.m

**514. Control of Glyphosate Resistant Weeds in No-Till Roundup Ready Soybeans with Ignite.** J. Ellis\*,<sup>1</sup> L. Steckel,<sup>2</sup> R. C. Scott,<sup>3</sup> A. Hopkins<sup>4</sup>; <sup>1</sup>Agricenter International, Memphis, TN, <sup>2</sup>University of Tennessee, Jackson, TN, <sup>3</sup>Division of Agriculture, University of Arkansas, Little Rock, AR, <sup>4</sup>Bayer CropScience, RTP, NC.

11:00 a.m. – 11:30 a.m.

**Business Meeting**

**Friday, February 13, 2009**

**8:00 AM - 11:00 AM**

**XII. Soil & Environmental Aspects**

**Location:** Salon 8

**Chair:** R. Jain\*; Vero Beach Research Center, Syngenta Crop Protection, Vero Beach, FL.

8:00 a.m. – 8:15 a.m

**515. Soil interactions with DPX-KJM44 and DPX-MAT28.** B. Lindenmayer\*, P. Westra, G. Brunk; Bioagricultural Sciences and Pest Management, Colorado State University, Fort Collins, CO.

8:15 a.m. – 8:30 a.m

**516. Field persistence of s-metolachlor as affected by tillage, depth and sulfur fertilization.** R. M. Zablotowicz\*, L. J. Krutz, K. N. Reddy; SWSRU, USDA-ARS, Stoneville, MS.

8:30 a.m. – 8:45 a.m

**517. Persistence of Triclopyr in Alaska Subarctic Environments.** S. S. Seefeldt\*,<sup>1</sup> D. L. Barnes,<sup>2</sup> R. D. Ranft,<sup>3</sup> W. J. Rhodes,<sup>2</sup> M. Zhang<sup>3</sup>; <sup>1</sup>USDA/ARS, Fairbanks, AK, <sup>2</sup>Civil and Environmental Engineering, University of Alaska Fairbanks, Fairbanks, AK, <sup>3</sup>Natural Resources and Agricultural Sciences, University of Alaska Fairbanks, Fairbanks, AK.

8:45 a.m. – 9:00 a.m

**518. Correlating residual herbicide rates and sorption coefficients in soils of contrasting texture.** P. J. Christoffoleti\*,<sup>1</sup> V. C. Cardinali,<sup>1</sup> A. C. Dias,<sup>1</sup> M. Nicolai,<sup>1</sup> A. M. Iaia,<sup>2</sup> V. L. Tornissielo,<sup>3</sup> T. C. Mueller<sup>4</sup>; <sup>1</sup>Crop Science, University of Sao Paulo, Piracicaba, Brazil, <sup>2</sup>Crop Science, University of Mato Grosso, Cuiabá, Brazil, <sup>3</sup>Cena, University of Sao Paulo, Piracicaba, Brazil, <sup>4</sup>Plant Sciences, University of Tennessee, Knoxville, TN.

9:00 a.m. – 9:15 a.m

519. **Effect of soil pH and previous use history on atrazine dissipation in soil.** T. C. Mueller\*, L. E. Steckel, M. Radosevich; University of Tennessee, Knoxville, TN.

9:15 a.m. – 9:30 a.m

520. **Timed release of flurprimidol from a granular formulation in mulches and sand soil.** T. L. Grey\*,<sup>1</sup> M. Czarnota,<sup>2</sup> T. Potter,<sup>3</sup> A. T. Bunnell<sup>4</sup>; <sup>1</sup>Crop and Soil Sciences, University of Georgia, Tifton, GA, <sup>2</sup>Horticulture Science, University of Georgia, Griffin, GA, <sup>3</sup>Southeast Watershed Research Laboratory, USDA/ARS, Tifton, GA, <sup>4</sup>SePRO Corporation, Carmel, IN.

9:30 a.m. – 9:45 a.m

521. **Factors Affecting Pesticide Runoff from Warm-Season Turfgrass.** J. H. Massey\*,<sup>1</sup> P. A. Ampim,<sup>2</sup> B. A. Stewart<sup>1</sup>; <sup>1</sup>Plant and Soil Science, Mississippi State University, Mississippi State, MS, <sup>2</sup>Texas AgriLife Research and Extension, Texas A & M University, Dallas, TX.

9:45 a.m. – 10:00 a.m.

**Break**

10:00 a.m. – 10:15 a.m

522. **Reducing Water Use and Herbicide Runoff by Multiple Inlet plus Intermittent Rice Irrigation.** J. H. Massey\*; Plant and Soil Science, Mississippi State University, Mississippi State, MS.

10:15 a.m. – 10:30 a.m

523. **Atrazine degrader numbers and activity are vertically stratified in Colorado and Mississippi s-triazine adapted soils.** L. Krutz\*,<sup>1</sup> R. M. Zablotowicz,<sup>1</sup> D. L. Shaner<sup>2</sup>; <sup>1</sup>SWSRU, USDA-ARS, Stoneville, MS, <sup>2</sup>WMRU, USDA-ARS, Fort Collins, CO.

10:30 a.m. – 10:45 a.m

524. ***Alyssum desertorum* reduces the diversity and abundance of soil bacterial populations in Yellowstone National Park.** B. Hamilton\*,<sup>1</sup> E. Hellquist<sup>2</sup>; <sup>1</sup>Biology, Washington and Lee University, Lexington, VA, <sup>2</sup>Biology, SUNY-Oswego, Oswego, NY.

10:45 a.m. – 11:00 a.m

525. **Bioavailability and chemical extraction efficiency of freshly-applied and aged trifloxysulfuron residues in soil.** R. Jain\*,<sup>1</sup> L. Glasgow,<sup>2</sup> W. Chen,<sup>2</sup> C. Tingle<sup>1</sup>; <sup>1</sup>Vero Beach Research Center, Syngenta Crop Protection, Vero Beach, FL, <sup>2</sup>Syngenta Crop Protection, Greensboro, NC.

**Friday, February 13, 2009**  
**11:00 AM - 12:00 PM**  
**VI. Regulatory Aspects**

**Location:** Salon 6

**Chair:** B. Caton\*; USDA-APHIS-PPQ, Raleigh, NC.

11:00 a.m. – 11:15 a.m

526. **Wind dispersed seeds from cargo entering the ports of Seattle and Tacoma, 2007–2008.** M. L. Smither-Kopperl\*; USDA-APHIS-PPQ, SeaTac, WA.

11:15 a.m. – 11:30 a.m

527. **A summary of Federal Noxious Weed (FNW) regulatory activities in the Eastern Region.** A. Man-Son-Hing\*; US Department of Agriculture, US Department of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine, Raleigh, NC.

11:30 a.m. – 11:45 a.m

528. **Update on the Federal Noxious Weed regulatory program.** A. V. Tasker\*; PPQ, USDA APHIS, Riverdale, MD.

11:45 a.m. – 12:00 p.m

529. **Herbicide Drift Assessment Using Hyperspectral Data and Remote Sensing.** D. B. Reynolds\*,<sup>1</sup> J. T. Irby,<sup>1</sup> L. M. Bruce,<sup>2</sup> C. L. Smith<sup>1</sup>; <sup>1</sup>Plant & Soil Sciences, Mississippi State University, Mississippi State, MS, <sup>2</sup>Computer & Electrical Engineering, Mississippi State University, Mississippi State, MS.

**Friday, February 13, 2009**  
**8:00 AM - 11:00 AM**  
**VIII. Formulation & Adjuvants**

**Location:** Salon 3

**Chair:** D. Sanyal\*; Monsanto Company, St. Louis, MO.

8:00 a.m. – 8:15 a.m

530. **The response of ryegrass (*Lolium temulentum*), canary grass (*Phalaris minor*) and wild oat (*Avena fatua*) to different adjuvants and herbicides.** A. Mousavi Nik\*,<sup>1</sup> M. Mollaei Kandelous,<sup>2</sup> M. Baghestani,<sup>1</sup> E. Zand,<sup>1</sup> N. Hosseyni Faradonbe,<sup>3</sup> A. Atri<sup>1</sup>; <sup>1</sup>Department of Weed Research, Plant Protection Research Institute, Tehran, Iran, Islamic Republic of, <sup>2</sup>Department of Irrigation and Reclamation, University of Tehran, Tehran, Iran, Islamic Republic of, <sup>3</sup>Agronomy, Birjand Univ. Iran, Birjand, Iran, Islamic Republic of.

8:15 a.m. – 8:30 a.m

531. **Measuring synergistic/antagonistic effects of glyphosate and dicamba mixes by common weed species.** J. A. Huff\*,<sup>1</sup> D. R. Shaw,<sup>1</sup> J. W. Weirich,<sup>1</sup> C. A. Massey,<sup>1</sup> M. B. Wixson<sup>2</sup>; <sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Helm Agro, Memphis, TN.

8:30 a.m. – 8:45 a.m

532. **Blue Windshield Wiper Fluid, High Octane Perfume, and other Substances used as Adjuvants.** R. K. Zollinger\*; Plant Sciences, North Dakota State University, Fargo, ND.

8:45 a.m. – 9:00 a.m

533. **New class of photoprotecting agents.** B. Eyheraguibel\*, A. Ter Halle, G. Ledoigt, C. Richard; Université Blaise Pascal, Aubiere, France.

9:00 a.m. – 9:15 a.m

534. **Air-propelled abrasives for postemergence weed control.** F. Forcella\*; Soils Lab, USDA-ARS, Morris, MN.

9:15 a.m. – 9:30 a.m

535. **Neodymium magnets in spray lines enhance droplet attachment to legume foliage for crop duster applications.** C. Ramsey\*,<sup>1</sup> R. A. Williams<sup>2</sup>; <sup>1</sup>CPHST Lab, Fort Collins CO, USDA-APHIS, Fort Collins, CO, <sup>2</sup>Forestry, Uni. of Florida, Milton, FL.

9:30 a.m. – 9:40 a.m

536. **The Effect of Pesticides, Additives, Nozzle Tips and Pressures on Spray Particle Sizes and Distribution.** R. N. Klein\*,<sup>1</sup> J. A. Golus,<sup>2</sup> K. L. Nelms<sup>2</sup>; <sup>1</sup>Agronomy/Horticulture, University of Nebraska, North Platte, NE, <sup>2</sup>West Central Res/Ext Center, University of Nebraska, North Platte, NE.

9:45 a.m. – 10:15 a.m.

**Break**

10:15 a.m. – 10:30 a.m

537. **The influence of spray components and nozzle type on spray distribution and coverage.** G. K. Dahl\*, J. V. Gednalske, E. Spandl; Winfield Solutions LLC, shoreview, MN.

10:30 a.m. – 11:00 a.m.

**Business Meeting**

**Friday, February 13, 2009**

**8:00 AM - 12:00 PM**

**XIII. Integrated Weed Management**

**Location:** Salon 6

**Chair:** C. H. Koger\*; Plant and Soil Sciences, Mississippi State University, Stoneville, MS

**Moderator:** D. M. Dodds\*; Plant and Soil Sciences, Mississippi State University, Mississippi State, MS.

8:00 a.m. – 8:15 a.m

538. **Alternative Rice Stand Establishment Systems to Manage Herbicide Resistant Weeds.** A. J. Fischer\*,<sup>1</sup> B. Linquist,<sup>1</sup> M. Moechnig,<sup>2</sup> R. Mutters,<sup>3</sup> J. E. Hill,<sup>1</sup> C. Greer,<sup>4</sup> L. Espino,<sup>5</sup> M. Milan,<sup>6</sup> J. W. Eckert<sup>1</sup>; <sup>1</sup>Plant Sciences Department, University of California, Davis, CA, <sup>2</sup>Plant Science Department, South Dakota State University, Brookings, SD, <sup>3</sup>Cooperative Extension, University of California, Oroville, CA, <sup>4</sup>Plant Sciences Department, University of California, Yuba City, CA, <sup>5</sup>Cooperative Extension, University of California, Colusa, CA, <sup>6</sup>Agroselviter, University of Turin, Grugliasco, Italy.

8:15 a.m. – 8:30 a.m

539. **Weed Shifts After Four Years of Various Weed Management Systems in No-Till Crops.** V. M. Davis\*, G. R. Kruger, W. G. Johnson; Botany and Plant Pathology, Purdue University, West Lafayette, IN.

8:30 a.m. – 8:45 a.m

540. **Simazine treated mulches improve weed control and management of triazine resistant common lambsquarters (*Chenopodium album*).** L. Jiang\*,<sup>1</sup> D. Doohan<sup>2</sup>; <sup>1</sup>Horticulture and Crop Sciences, The Ohio State University/Ohio Agricultural Research and Development Center, wooster, OH, <sup>2</sup>Horticulture and Crop Sciences, The Ohio State University/Ohio Agricultural Research and Development Center, Wooster, OH.

8:45 a.m. – 9:00 a.m

541. **The Okanola Project: a new approach to weed management in wheat.** T. F. Peeper\*, M. C. Boyles; Plant and Soil Sciences, Oklahoma State University, Stillwater, OK.

9:00 a.m. – 9:15 a.m

542. **Weed Management Tactics in Organic No-Till Soybeans.** A. N. Smith\*, J. P. Mueller, S. C. Reberg-Horton; Crop Science, North Carolina State University, Raleigh, NC.

9:15 a.m. – 9:30 a.m

543. **Shifting herbicide sensitivity towards susceptibility through recurrent selection at low rate of diclofop-methyl in a susceptible *Lolium rigidum* population.** S. Manalil Velayudhan\*, R. Busi, S. B. Powles; Western Australian Herbicide Resistance Initiative, University of Western Australia, Perth-WA, Australia.

9:30 a.m. – 9:45 a.m

544. **Winter Wheat Tolerance to Broadcast Flaming.** S. Knezevic\*, S. Ulloa, J. Ferrari-Neto, A. Datta; UNL, Concord, NE.

9:45 a.m. – 10:15 a.m.

**Break**

10:15 a.m. – 10:30 a.m

545. **Response to selection with sub-lethal glyphosate doses in *Lolium* vs. *Avena* populations.** R. Busi\*, S. B. Powles; University of Western Australia, Perth, Australia.

10:30 a.m. – 10:45 a.m

546. **Weed Management In Arid Regions.** H. Z. Ghosheh\*; Jordan University Science Technology, Amman, Jordan.

10:45 a.m. – 11:00 a.m

547. **Weed Flaming: An engineering approach.** S. Knezevic\*,<sup>1</sup> C. Bruening,<sup>2</sup> G. Gogos,<sup>2</sup> Z. Zhang,<sup>2</sup> S. Ulloa<sup>1</sup>; <sup>1</sup>UNL, Concord, NE, <sup>2</sup>UNL, Lincoln, NE.

11:00 a.m. – 12:00 p.m.

**Business Meeting**