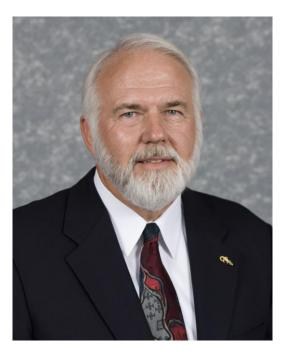
## Joint Meeting of the Southeastern and Southwestern Branches

## Entomological Society of America



4-7 March 2012 Little Rock, Arkansas





Dr. Norman C. Leppla
President, Southeastern Branch of
the Entomological Society of
America, 2011-2012



Dr. Allen E. Knutson
President, Southwestern Branch of
the Entomological Society of
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ENTOMOLOGY 2012

II\_

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#### **ESA SECTIONS**

#### Medical, Urban & Veterinary Entomology

(MUVE) deals with insect interactions with other animals, including humans, including medical entomology, urban entomology, veterinary entomology, forensic entomology, epidemiology, integrated disease management, human and veterinary parasitology, public health pest management, mosquito control, management of structural pests (e.g., termites, ants), and others.

#### Physiology, Biochemistry, and Toxicology (PBT) --

formerly Integrative Physiological and Molecular Insect Systems or IPMIS -- is for people who study insects at the cellular or molecular levels, and it includes topics such as biochemistry, microbiology, toxicology, endocrinology, cytology, molecular biology, allelochemicals, pheromones, hormones, metabolism, and others.

Plant-Insect Ecosystems (P-IE) deals with insect interactions with plants, including behavioral, ecological, and evolutionary relationships in natural landscapes, as well as integrated pest management (IPM) in agriculture, horticulture, forests, and lawn and garden. Aspects of crop protection, host-plant response, plant pathology/vectors, pollination, biological control, microbial control, and others are relevant.

**Systematics, Evolution, and Biodiversity** (*SEB*): is for people who study insect anatomy, classification and history. As the name implies, it focuses on systematics, evolution and biodiversity, but it could also include morphology, ecology, population dynamics, genetics, phylogeny, nomenclature, biogeography, zoology, and other specialties.

### PROGRAM SUMMARY SATURDAY, 3 MARCH

8:00 AM – 4:00 Department Heads meeting - Ouachita
4:00 PM - 6:00 Final Local Arrangements/Program
Committee Meeting - Ouachita

#### PROGRAM SUMMARY SUNDAY, 4 MARCH

8:00 AM – 12:00	Department Heads meeting - Ouachita
9:00 AM - 12:00	Southeastern Branch Student Affairs Committee - Lafayette
9:00 AM - 12:00	Southwestern Branch Student Affairs Committee - Peck
9:00 AM - 1:00	Southeastern Branch Executive Committee Meeting - Hoffman
10:00 AM - 12:00	Southwestern Branch Executive Committee Meeting - Manning
1:00 PM - 2:00	Society of Southwestern Entomologists General Membership Meeting - Manning
1:00 PM - 5:00	Registration - CC 3rd Floor Lobby
1:00 PM - 5:00	S-1049 Multi-State Project on Pecans Meeting - Lafayette
1:00 PM - 9:00	Student Poster Competition Set Up - Riverview Meeting Room
2:00 PM - 4:00	Southeastern Branch Linnaean Games, Round 1 - Salon A, Peabody Ballroom
2:00 PM - 4:00	Southwestern Branch Linnaean Games, Round 1 - Salon C, Peabody Ballroom
2:00 PM - 5:00	S-1034 Regional Biological Control Group Meeting - Manning
3:00 PM - 7:00	<b>Audiovisual and Job Placement</b> - Petit Jean Meeting Room
5:00 PM - 7:00	<b>Southern Corn Working Group</b> - Hoffman
7:00 PM - 9:00	Mixer/Reception (light finger foods) - Pinnacle Room

### PROGRAM SUMMARY MONDAY, 5 MARCH

7:00 AM - 5:00	<b>Audiovisual and Job Placement</b> - Petit Jean Meeting Room
7:00 AM - 5:00	Registration - CC 3rd Floor Lobby
7:00 AM - 8:00	Student Poster Competition Set Up - Riverview Meeting Room
7:00 AM - 8:30	<b>Breakfast</b> - Arkansas Ballroom, East Concourse
8:00 AM - 4:00	<b>Student Poster Competition Judging</b> - Riverview Meeting Room
8:00 AM - 5:00	<b>Student Poster Exhibits</b> - Riverview Meeting Room
8:30 AM - 10:00	Joint Southeastern Branch/Southwestern Branch Plenary Session - Conway Lecture Hall
10:00 AM - 10:30	Break - Conference Center Level 2
10:30 AM - 2:00	<b>B.S. Student Oral Presentations</b> - Neosho Meeting Room
10:30 AM - 2:00	M.S. Student Oral Presentations I - Ouachita Meeting Room
10:30 AM - 2:00	M.S. Student Oral Presentations II - Grampas Meeting Room
10:30 AM - 2:00	M.S. Student Oral Presentations III - Chicot Meeting Room
10:30 AM - 2:00	M.S. Student Oral Presentations IV - White Oak Lecture Hall
10:30 AM - 2:00	Ph.D Student Oral Presentations I -
	Harris Lecture Hall
10:30 AM - 2:12	Ph.D. Student Oral Presentations II - Conway Lecture Hall
10:30 AM - 2:12 12:00 PM - 1:00	Ph.D. Student Oral Presentations II -
	Ph.D. Student Oral Presentations II - Conway Lecture Hall  Box Lunches - Arkansas Ballroom, East

#### PROGRAM SUMMARY MONDAY, 5 MARCH (CONT'D.)

3:30 PM - 5:30	<b>Southeastern Branch Linnaean Games, Final Round</b> - Salon A, Peabody Ballroom
3:30 PM - 5:30	<b>Southwestern Branch Linnaean Games, Final Round</b> - Salon C, Peabody Ballroom
5:00 PM - 7:00	<b>Student Poster Competition Removal</b> - Riverview Meeting Room
5:30 PM - 7:00	Southeastern Branch Student Awards - Salon A, Peabody Ballroom
5:30 PM - 7:00	<b>Southwestern Branch Student Awards -</b> Salon C, Peabody Ballroom
6:30 PM - 9:00	General Poster Set Up - Riverview Meeting Room

#### PROGRAM SUMMARY TUESDAY, 6 MARCH

7:00 AM - 5:00	<b>Audiovisual and Job Placement</b> - Petit Jean Meeting Room
7:00 AM - 5:00	Registration - CC 3rd Floor Lobby
7:00 AM - 8:00	<b>Coffee and Tea</b> - Arkansas Ballroom, East Concourse
7:00 AM - 8:00	<b>General Poster Set Up -</b> Riverview Meeting Room
8:00 AM - 5:00	General Poster Presentations (Medical, Urban and Veterinary Entomology; Plant–Insect Ecosystems; Physiology, Biochemistry, and Toxicology; and Systematics, Evolution, and Biodiversity Sections) - Riverview Meeting Room
8:00 AM - 10:00	Contributed Papers: Plant-Insect Ecosystems: Soybeans and Stinkbugs - White Oak Lecture Hall
8:00 AM - 10:00	Spotted wing drosophila, Drosophila suzukii, in the Southeast: spread, status, and management challenges - Chicot Meeting Room

#### PROGRAM SUMMARY TUESDAY, 6 MARCH (CONT'D.)

8:00 AM - 10:00	Armyworm Symposium - Harris Lecture Hall
8:00 AM - 12:00	Functional Genomics of Tick-Pathogen Interface - Grampas Meeting Room
10:15 AM - 11:50	Contributed Papers: Physiology, Biochemistry, and Toxicology Section and Systematics, Evolution, and Biodiversity Section - Chicot Meeting Room
10:15 AM - 12:00	Contributed Papers: Plant-Insect Ecosystems: Cotton and Corn - White Oak Lecture Hall
10:15 AM - 12:00	<b>Turf and Ornamentals Symposium -</b> Harris Lecture Hall
12:15 PM - 1:30	Joint Southeastern Branch/Southwestern Branch Awards Ceremony/Luncheon and Photo Salon - Salons B and C Peabody Ballroom
2:00 PM - 3:30	Symposium: Biological Control Success Stories - Chicot Meeting Room
2:00 PM - 3:30	<b>Contributed Papers: Medical, Urban and Veterinary Entomology Section -</b> Grampas Meeting Room
2:00 PM - 5:00	Symposium: Advancing IPM in Pecan Systems - Harris Lecture Hall
2:00 PM - 5:00	<b>Vegetable Symposium -</b> White Oak Lecture Hall
2:30 PM - 3:30	Poster Presenters at Poster Presentations - Riverview Meeting Room
3:30 PM - 3:45	<b>Break</b> - Conference Center Level 2
3:45 PM - 5:00	Contributed Papers: Plant-Insect Ecosystems: Organic and Biocontrol - Chicot Meeting Room
3:45 PM - 5:00	Contributed Papers: Plant-Insect Ecosystems: Wheat and Sorghum - Grampas Meeting Room
5:15 PM - 6:00	<b>Shuttle Leaves for Clinton Library</b> - Front of Hotel

#### PROGRAM SUMMARY TUESDAY, 6 MARCH (CONT'D.)

foods) - Clinton Presidential Library

6:30 PM - 8:15 Shuttle Returns to Peabody Hotel - Front

of Clinton Presidential Library

### PROGRAM SUMMARY WEDNESDAY, 7 MARCH

7:00 AM - 9:30	<b>Audiovisual and Job Placement</b> - Petit Jean Meeting Room
7:00 AM - 8:00	<b>Coffee and Tea</b> - Arkansas Ballroom, East Concourse
8:00 AM - 10:00	<b>Registration</b> – Conference Center 3rd Floor Lobby
8:00 AM - 9:30	Contributed Papers: Plant-Insect Ecosystems: Citrus and Sugarcane - Chicot Meeting Room
8:00 AM - 10:00	Contributed Papers: Plant-Insect Ecosystems, Various Sections - White Oak Lecture Hall
8:00 AM - 10:10	Updating the Status of the Bean Plataspid, Megacopta cribraria, in its Expanded Range in North America - Harris Lecture Hall
10:00 AM - 10:30	Break - Conference Center Level 2
10:30 AM - 11:30	Southeastern Branch Business Meeting - Harris Lecture Hall
10:30 AM - 11:30	Southwestern Branch Business Meeting -

White Oak Lecture Hall

#### MEETING NOTICES AND POLICIES

**REGISTRATION:** Everyone attending the joint SWB/SEB-ESA meeting is expected to register. On-site registration fees include a luncheon ticket, and are: Active Members – \$175; Student Members – \$85; Guests – \$50; and Non-members - \$200. One-day registration - \$175. Honorary Members, Emeritus Members, and Nonmembers giving invitational papers must register, but will not pay registration fees (but must pay for Awards Luncheon ticket and/or Clinton Library Reception -- \$50 for either or both). Registration Desk is located on Conference-3 Level, outside the Petit Jean Meeting Room, and will be open on Sunday (1:00 pm – 5:00 pm), Monday (7:00 am - 5:00 pm), Tuesday (7:00 am - 5:00 pm), and Wednesday (8:00 am - 10:00 am).

SPECIAL RECEPTION AT **CLINTON** PRESIDENTIAL LIBRARY: A special reception has been arranged for registered meeting attendees (see above) at the Clinton Presidential Library. The food at the reception is being provided by Terminix International, and entry to the Library is being provided by the Little Rock Convention and Visitor's Bureau. The Reception will be held on Tuesday evening from 5:30 pm to 7:30 pm. Shuttle buses will be running from the Peabody Hotel (in front of the hotel) to the Clinton Presidential Library from 5:15 pm to 6:00 pm, and shuttles will carry participants back to the Peabody Hotel from the front of the Library from 6:30 pm to 8:15 pm. You may also walk to the Library. The distance is approximately one mile, and directions can be obtained from the front desk of the Peabody Hotel.

#### GUEST AND SPOUSE ACTIVITIES AND FUNCTIONS:

Monday – Guest and Spouse Program 9:15 am – 3:30 pm

9:15 am Meet in Peabody Lobby

9:30 am-11:15 State House Museum (adjacent to

Peabody)

11:15 am Trolley to Governor's Mansion 11:30 am–1:00 Lunch at Governor's Mansion

1:00 pm Trolley to Heifer Village/Clinton Library 1:15 pm-3:15 Visit Museum or Heifer \*(entry fee at own

cost)

3:15 pm Trolley back to Peabody

This luncheon and program requires pre-registration (limited to 48 participants).

\*\*\*

Guests and spouses are also invited to the following meeting functions:

Sunday 7:00pm -9:00 pm

Reception (Pinnacle Room, Peabody Hotel)

Tuesday 12:00pm –1:30 pm

Awards Luncheon (Peabody Ballroom, Peabody Hotel)

<u>Tuesday 5:30pm –8:00 pm</u> Reception at the Clinton Presidential Library Hors d'oeuvres and drink tickets provided. The Library is closed to the public and we have exclusive access Tuesday evening.

\*\*\*

#### Other activities available to everyone (not arranged or coordinated by SEB-SWB):

Tuesday -3:00 pm - 5:30 pmDiamond Chef Competition (Peabody lobby) Look on as local chefs compete for the title

Tuesday and Wednesday evenings, 7:30 pm Robinson Center (1 block from Peabody) Broadway performances of "Young Frankenstein" Tickets are \$15-46

In addition, there is ample shopping at the River Market (~ 3 blocks away)

#### **ESA** CERTIFICATION **BOARD**

**INFORMATION DESK:** Information on the Certification Board of the Entomological Society of America will be offered in the Registration area during Registration periods. Please contact the Certification Board Manager at the National Office to make arrangements to take the Certification Board Examination at the meeting.

PROGRAM SCHEDULE: Sessions must adhere to the printed schedule. It is the moderators' responsibility to keep speakers on schedule. If a scheduled presentation is not given, the moderator should ensure that the next speaker does not begin until his/her scheduled time. Timing devices will be provided.

**AUDIOVISUAL**: Digital projectors will be provided in each meeting room, along with pointing devices. Presentations may be previewed in the Petit Jean Meeting Room from 7:00 am to 5:00 pm on Monday and Tuesday, and from 7:00 am to 9:30 am on Wednesday.

**POSTER PRESENTATIONS**: Poster boards measure 4x8 feet and will accommodate two posters on each side (posters should be no larger than 44"x44"). Posters for the Student Competition on Monday should be set up on Sunday from 1:00 pm to 9:00 pm or Monday morning from 7:00 am to 8:00 am in the Riverview Meeting Room, and must be removed by 7:30 pm on Monday evening. Posters for Tuesday exhibition should be set up on Monday from 7:00 pm to 9:00 pm or Tuesday morning from 7:00 am to 8:00 am in the Riverview Meeting Room. Posters should be mounted on the boards (assigned by the number of the presentation) with Velcro fasteners (hook side). Authors are asked to bring their own stick-on Velcro fasteners. Presentations should be available for viewing both days from 8 am to 5 pm. Student presenters should be available at their posters between 1:30 pm and 2:30 pm on Monday, and presenters of regular posters should be at their posters from 2:30 pm to 3:30 pm on Tuesday. Be sure to remove all posters by 5:30 pm on Tuesday, 6 March.

**JOB PLACEMENT CENTER:** The Student Affairs Committee will sponsor a job placement center (in the Petit Jean Meeting Room) for all interested employers and prospective employees from 7:00 am to 5:00 pm on Monday and Tuesday, and from 7:00 am to 9:30 am on Wednesday. If you either have a job vacancy or are seeking employment, please bring an announcement or résumé to the Petit Jean Meeting Room.

**PUBLIC RELATIONS**: The Public Relations Committee will sponsor a Press Release area near the Registration desk during regular meeting hours. Press releases and public relations information may be brought to this area.

#### SOUTHEASTERN BRANCH – ESA 2011-2012 OFFICERS AND COMMITTEES

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#### SOUTHWESTERN BRANCH - ESA 2011-2012 **OFFICERS AND COMMITTEES**

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Melise Schmidt, NMSU

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Wizzie Brown

Roy Parker

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**Bonnie Pendleton** 

#### SEB AWARDS – 2012 ESA DISTINGUISHED ACHIEVEMENT AWARD IN EXTENSION



**DR. AMANDA C. HODGES** of the Entomology and Nematology Department, University of Florida, IFAS, has been selected for the 2012 Distinguished Achievement Award in Extension. Dr. Hodges has held a 100% Extension appointment since 2002, and she serves as Co-Associate Director of the Southern Plant Diagnostic Network, one of the five regional centers for the National Plant Diagnostic Network. In this Assistant Extension Scientist position, she coordinates First Detector education to assure proper surveillance and reporting of exotic arthropods, plant pathogens, nematodes and other emerging pests. She also conducts an extensive range of Extension activities in support of U.S. crop biosecurity. Dr. Hodges has developed a robust Extension program far in excess of the requirements of her assignment.

She designs and delivers innovative hands-on plant pest diagnostic workshops, and assists in expanding distance diagnostics in Florida, the Southern Region and the Caribbean. Moreover, she participates in a wide range of Extension activities that respond to new pest outbreaks, e.g., creating pest alerts, fact sheets, publications, posters, and other training materials. Her numerous and highly effective Extension publications have communicated critical information on a wide range of pestiferous insects and mites, and selected plant pathogens. Particularly notable are her national workshops on scale insect identification, how to conduct first detector training, how to prepare and submit samples for distance diagnostics, identification and management of thrips, common insect and disease problems in the landscape, and training for the State Agricultural Response Team. Dr. Hodges represents both the SPDN and NPDN in providing Extension training in pest detection and management, and her diagnostic workshops have provided training to more than 100 Extension agents and cooperators, and served as a model for the NPDN. This training resulted in new pest records, enhanced diagnostic capabilities, more extensive pest surveys, and increased collaboration between taxonomic experts and the Extension community. Dr. Hodges led a pioneering effort to develop the first e-learning pestfocused module for NPDN. Remarkably, her train-the-trainer approach has enabled many Extension agents to offer First Detector training workshops for their clientele. Her superb training modules and Extension publications are used extensively throughout the U.S., the Pacific and Caribbean. She frequently participates in webinars to contribute her knowledge and experience across this network. She continues to be an important collaborator with the statewide IPM program using up to date methods and technology. Dr. Hodges contributes to scientific and educational organizations by organizing symposia at ESA meetings and she is active in the Florida Entomological Society, Georgia Entomological Society, American Phytopathological Society, UF Entomology and Nematology Department, UF Extension program, and allied institutions, such as USDA and the Florida Department of Agriculture and Consumer Services, Division of Plant Industry.

## SEB AWARDS – 2011 ESA DISTINGUISHED ACHIEVEMENT AWARD IN HORTICULTURAL ENTOMOLOGY



DR. GREGG S. NUESSLY, Associate Professor of Entomology at the University of Florida, Everglades Research and Education Center (EREC), Belle Glade, FL is the 2011 Southeastern Branch's recipient of the ESA Distinguished Achievement Award in Horticultural Entomology. He received a B.S. in Biology from the University of California, Irvine in 1978. The research for his M.S. in Entomology from the University of California, Riverside (1981) focused on evaluating the adopted natural enemies of an insect introduced from Asia for the biological control of Russian thistle. In 1986, he received his Ph.D in Entomology from Texas A&M University, College Station where he studied biotic and abiotic factors affecting Helicoverpa zea on east Texas cotton. He joined the University of Florida in 1989 following a 3-yr Research Entomologist position with the USDA-ARS in Brawley, CA studying the biology and control of sweetpotato whitefly (Bemisia tabaci) on cotton and vegetables. Working within one of the largest agricultural production counties in the US, he conducts pest management research, including host plant resistance, on a wide range of pests associated with fruiting, leafy green and leafy Brassica vegetables; sweet and field corn; sweet sorghum for biofuel; sugarcane; and turfgrass.

Activities acknowledged by this award are research and extension projects following his 2003 discovery of greenbug (Schizaphis graminum) severely damaging seashore pasaplum (SP) turfgrass in Belle Glade, Florida; a new pest-host plant association for the United States. He formed a multiagency research team to determine the ecology of greenbug associated with warm season turf grasses; evaluate control strategies to develop an IPM program for stakeholders; and screen available varieties and new breeding lines of SP and other warm season turfgrass types for resistance to greenbug. This insect represented a new virulent biotype that caused the stunting and premature death of all known greenbug-resistant varieties of small grains. Screening for resistance led to the release of a greenbug-resistant SP ('Aloha') and zoysia- and Bermuda-grass cultivars (non-dwarf types) that reduced the need for pesticide applications and exposure to golf course patrons and employees. Effective insecticide control strategies were identified and disseminated to golf course managers and sod producers through popular press and extension publications, and at private and public turfgrass field days to facilitate their adoption of the program. Based on new infestations that have appeared on plants grown in open ranges in southern Florida, greenbug now appears to be extending its host range to zoysia and Bermudagrasses. Information on a second new aphid found on seashore paspalum, the rusty plum aphid (*Hysteroneura setariae*), was quickly disseminated at field days and on the EREC website.

Dr. Nuessly is the author or coauthor of 60 refereed publications, 130 peer-reviewed electronic publications and extension documents (not including abstracts), 5 germplasm and cultivar releases for sweet corn, celery and turfgrass, and has coauthored three book chapters. His research activities have been supported over the last 10 yr by \$790K in direct grant support, donations, and in-kind support. He is actively involved with graduate student activities and committees in the ESA and the Florida Entomological Society. He served as acting editor of the Journal of the American Society of Sugar Cane Technologists and is currently the Associate Center Director of the EREC.

#### SEB AWARDS – 2012 ESA DISTINGUISHED ACHIEVEMENT AWARD IN HORTICULTURAL ENTOMOLOGY



DR. EILEEN A. BUSS, Associate Professor of Entomology and Extension Specialist in Turfgrass and Ornamental Entomology in the Entomology and Nematology Department of the University of Florida, is the 2012 recipient of the Distinguished Achievement Award in Horticultural Entomology. Dr. Buss received her BS in Zoology in 1993 at Michigan State University and her MS in Entomology from the same institution in 1996. She earned her Ph. D. at the University of Kentucky in 1999. She began work at the University of Florida in the Turfgrass and Landscape Program in 2001, and works effectively with people in many segments of the Green Industry. She has earned the respect of her clientele, that includes turfgrass managers, landscapers, and nursery personnel, as well as state regulators, extension staff, Master Gardeners, and the general public. Dr. Buss has successfully reorganized and updated the university's turf and landscape entomology program and disseminates information using traditional fact sheets and trade publications, and also with the use of distance learning, social media, podcasts, and webcasts. Her extension publications are accessible with well-chosen color diagnostic photos and up-to-date information. In addition to a well-respected extension program, Dr. Buss also conducts high quality applied research on pests such billbugs, sugarcane grubs, and oak scales, investigating the biology of newly introduced pests and the compatibility of various management strategies. Dr. Buss has served in a variety of leadership roles within her department, chairing or participating on search, awards, and mentoring committees, and as an organizing member of pest management summits. She has also represented her department on the faculty senate and at events throughout the state. Dr Buss is active in the SEB-ESA, serving on the Nominating, Membership, and Local Arrangements committees, and in various roles in the Florida Entomological Society. Past awards include the Extension award of the Florida Entomological Society and two UF/IFAS Silver Image awards for educational materials.

#### SEB AWARDS – 2012 DISTINGUISHED ACHIEVEMENT AWARD IN TEACHING



LINDA HOOPER-BÙI, Associate Professor of Entomology, Louisiana State University, is the recipient of the 2012 Distinguished Achievement Award in Teaching. She received her BA in Biology at California State University, Long Beach in 1991. She earned her MS and Ph.D. in Entomology at the University of California, Riverside in 1995 and 1998, respectively. Since she began at the Entomology Department of LSU in 1998, Dr. Hooper- Bùi has been active in educating undergraduates from many departments as well as entomology graduate students. She has developed or codeveloped or taught 14 classes during that time. In addition to classroom teaching, Dr. Bùi has mentored undergraduate researchers, obtaining university grants to support their work. After the students learned proper scientific research methods, they presented their projects orally and/or prepared written publications. Several have won awards for their work. Dr. Bùi introduced service learning to her entomology class, and both she and her students have been awarded for their projects. Dr. Bùi is willing to take risks and try new methods for teaching, and her insect ecology class has been certified as a "communication intensive" course, earning a special designation on student transcripts. She has introduced "wikis" in insect ecology to teach students collaborative writing skills, and uses a variety of methods and tools to measure student learning, and adjust her teaching during the term. Dr. Bùi's teaching methods are widely appreciated, as evidenced by the number of invited presentations she has given at the university and at professional meetings, including ESA annual meetings. Dr. Bùi serves on curriculum committees at the department and college level, and the college committee to improve teaching evaluations.

#### SEB AWARDS – 2012 ESA RECOGNITION AWARD IN INSECT PHYSIOLOGY, BIOCHEMISTRY, AND TOXICOLOGY



DR. JULIÁN F. HILLYER, Assistant Professor of Biological Sciences at Vanderbilt University and the Vanderbilt Institute for Global Health, is the 2012 recipient of the Recognition Award in Insect Physiology, Biochemistry and Toxicology. Dr Hillyer received his Bachelor of Arts from the University of Chicago in 1996 with a major in Biology and his MS from the University of Wisconsin-Madison in 1999, majoring in Veterinary Science. Dr Hillyer was awarded his Ph.D. from the same institution in 2004 with a major in Comparative Biomedical Sciences. He has established a productive lab, has been a magnet for many gifted students, and has contributed to the advancement of the field of mosquito circulatory physiology and the cellular and molecular bases of insect immunity. Dr. Hillyer's group has developed state-of-the-art imaging and molecular methodologies for characterizing the in vivo - real-time response of mosquito hemocytes to invading pathogens. They have also developed superior visual techniques that revealed the role of the ventral abdomen in hemolymph propulsion by visualizing the real time action of heart muscles and by tracking hemolymph movement throughout the mosquito. Also notable are his contributions in molecular biology and biochemistry including his research on the peritrophic matrix formation, global transcriptomic profiling, and salivary gland biology. Dr. Hillyer's group recently discovered that members of a salivary gland protein family, named SGS, are secreted with mosquito saliva and are highly immunogenic, and collaborative work has been conducted related to the cellular expression of the sclerotizing neurohormone bursicon in adult insects. In all of his projects he demonstrates rigorous critical thinking as well as a talent in the concise formulation of complex concepts. Dr Hillyer has served on undergraduate Honors Committees as well as graduate committees, trained medical students in research and mentored high school students. Dr. Hillyer is active in several professional societies including ESA. An image taken by one of his graduate students while working under an NSF grant was awarded first place in the Nikon Small World Photomicrography 2010.

#### SEB AWARDS – 2012 ESA AWARD FOR EXCELLENCE IN INTEGRATED PEST MANAGEMENT



DR. DAVID SHAPIRO-ILAN, Research Entomologist and lead scientist, USDA-ARS Southeastern Fruit and Tree Nut Research Laboratory in Byron GA, is the 2012 recipient of the Award for Excellence in Integrated Pest Management. Dr. Shapiro-Ilan received his BS in Biology in 1984 at the University of Michigan, his MS in Entomology from Louisiana State University in 1989, and his Ph. D. in Entomology at the Iowa State University in 1994. He began work at the SE Fruit and Tree Nut Research Lab in 2000, and has established himself as a leader in research on the management of agricultural pests using microbial pesticides, especially entomopathogenic nematodes and fungi. His research focuses on developing alternative pest management methods for peach and pecan pests, and his collaborative skills have allowed him to transfer information gained through basic biological research into practical systems that are acceptable to growers. Dr. Shapiro-Ilan's research has resulted in the integration of numerous practices including the use of entomopathogenic nematodes for the management of peachtree borer, citrus weevil, pecan weevil, and plum curculio, and the improved selection, production, and delivery of entomopathogens. In addition to these specific targets, Shapiro-Ilan has had broad impact on incorporating biological control into IPM through discovery of new biocontrol agents, and novel approaches in production and application as detailed above. These discoveries and novel techniques have been adopted by biocontrol producers and growers in various cropping systems. This work has also resulted in over 100 refereed publications and four patents. with additional patents pending. Dr. Shapiro-Ilan has or is currently serving on the editorial board, as an associate editor or subject editor of several professional journals. In addition to his position with USDA-ARS, he has adjunct professor appointments in the Department of Entomology, University of Georgia and the Department of Biology at Fort Valley State University and serves as a mentor to minority students, introducing them to the field of insect pathology. He has taken leadership roles within his professional societies, regional projects and working groups, and was awarded a Fulbright Scholarship.

#### SEB AWARDS – 2012 ESA RECOGNITION AWARD IN URBAN ENTOMOLOGY



DR. GREGG HENDERSON, the Paul K. Adams Professor of Urban Entomology at the Louisiana State University AgCenter has been selected to receive the 2012 Recognition Award in Urban Entomology. He received his BS degree in 1976 from Rutgers University with a double major in Biology and Psychology, and his MS degree from Washington State University in 1985, majoring in Entomology. He earned his Ph.D. in Entomology from the University of Wisconsin-Madison in 1989. Dr. Henderson conducts research on termites, ants, cockroaches, bed bugs, ticks, and fleas, developing baits, monitors, and new insecticides. In addition to research, he devotes significant time to outreach projects that include presentations, home inspections, and insect identification. A dynamic speaker, Dr. Henderson has been invited to present at 33 professional meetings, several universities, and over 200 trade/professional meetings. He has published over 100 refereed papers, 4 book chapters, and over 75 non-refereed articles. The topics of these papers range from insect-fungus interactions to the chemistry of plant derivatives to termite ecology, behavior, nutrition and control. Dr. Henderson takes an ecological approach to his work, which has led him to be involved in the areawide control of termites recognizing the need for a partnership between industry, government, and people. His spirit of cooperation has involved him in a project to stabilize levees for flood mitigation using vetiver grass. His work has resulted in 20 patents, and he has been awarded over \$6.5 million in grants. Dr. Henderson teaches classes and seminars at the graduate and undergraduate level and teaches classes to prepare pest control operators. He has advised 14 graduate students at the M.S. and Ph.D. level. He is a past recipient of the SEB-ESA award in Physiology, Biochemistry, and Toxicology, the Orkin recognition award, the Editors' choice award for Outstanding Paper in the American Entomologist, and was selected as the first Paul K. Adams professor. Dr. Henderson actively serves his department, having coached the Linnaean games team, and served as adviser to the entomology club and judging science fairs and 4-H presentations. He served as secretary and vice president of his ESA subsection, and a moderator and judge for student presentations. He recently served as guest editor for a special issue of the journal Psyche.

#### SEB AWARDS – 2012 ESA RECOGNITION AWARD IN ENTOMOLOGY



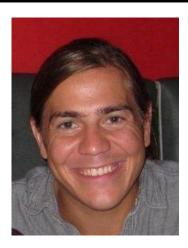
DR. B. ROGERS LEONARD, the Jack B. Hamilton Regents Chair in Cotton Production at the Louisiana State University Agricultural Center, is the 2012 recipient of the Southeastern Branch ESA Recognition Award in Entomology. He received his BS in Agronomy in 1984 at Louisiana State University, his MS in Entomology in 1987 at LSU, and his Ph.D. at the same institution, majoring in Entomology with a minor in Agronomy. Dr. Leonard has been an active research scientist for over 22 years with the LSU AgCenter. His initial appointments were associated with cotton IPM, but within a few years he had to broaden his work to include research and an extension appointment on all field crops in NE Louisiana. His research accomplishments in cotton IPM and demonstrations of leadership prompted his promotion to the J. Hamilton Regents Chair in Cotton Production. Dr. Leonard is known for his grantsmanship, number of invited presentations (111), number of students advised/mentored 29 PhD, 32 MS), and his research. His work has encompassed insecticide resistance management (IRM), mechanisms of Bt resistance, the role of larval behavior to better understand the efficacy of Bt crops (or lack thereof), and collaborative work with the F2 screen to document Bt resistance in lepidopteran pests. In addition to the direct benefit to growers, Dr Leonard has established a legacy of influence, via his graduates, who are now successful in academia, industry and government. Dr. Leonard has consistently published in high-quality refereed journals (>120 to date; 24 papers in past 3 years), which has led to numerous invited talks, and media interviews. He has been an active leader in the SEB, ESA, university, and commoditybased IPM groups. For the past 3 years, he has been active in leading the largest section of the ESA (Plant-Insect Ecosystems); this year he serves as President of P-IE. Dr. Leonard's work has been recognized with numerous awards for student and stakeholder mentoring, as well as service, research, and extension. He was named to the Louisiana Agricultural Consultants Association - Louisiana Hall of Fame 2009 in recognition of his work.

#### SEB AWARDS – 2012 JOHN HENRY COMSTOCK AWARD Outstanding Ph.D. Student



JULIEN BEUZELIN attended the University of Rennes 1, France where he received a B.S. in cell biology & physiology. In his undergraduate experience, he studied nematodes, aphids, and pathogens attacking vegetable, melon, and carrot production. Julien received his M.S. in crop protection from the École Nationale Supérieure Agronomique de Rennes, France. For his M.S. research, he worked with Drs. T. E. Reagan (Louisiana State University) and L. T. Wilson (Texas A&M University), assessing on-farm efficacy of reduced-risk insecticides and aspects of biological control for sugarcane borer management in sugarcane and rice. Julien recently completed his doctoral studies in the Department of Entomology at Louisiana State University with a minor in applied statistics. His dissertation research under Dr. Reagan focused on ecology and pest management of stem borers of sugarcane and rice, and involved extensive stakeholder interactions with farmers and extension agents. Research included on-farm and greenhouse non-crop host, cultural practice, and hurricane impact studies. Julien also studied sugarcane cultivar resistance to aphids, insecticide resistance in the sugarcane borer, and induced resistance to the fall armyworm in conventional and transgenic cotton. Since beginning his Ph.D. studies in 2006, he has published peer-reviewed research articles, 11 Arthropod Management Tests reports, and numerous extension papers. Awards include the LSU Department of Entomology L.D. Newsom Outstanding Ph.D. Student and ESA President's Prize.

#### SEB AWARDS – 2012 KIRBY L. HAYS AWARD Outstanding M.S. Student



**BLAKE EMERSON WILSON,** a native of Mandeville, LA, received his BS in Biology from Louisiana State University in May of 2009. While an undergraduate, Blake worked part time in various fields of biology including aquaculture, veterinary pathology, and fisheries ecology. He began developing an interest in Entomology as a lab assistant in Dr. Gene Reagan's sugarcane program where he was encouraged to pursue a Master of Science in the Department of Entomology at LSU.

Under the guidance of Dr. Reagan in Baton Rouge, LA and Dr. Alan Showler at the USDA-ARS Kika de La Garza Subtropical Research Station in Weslaco, TX, Blake conducted the majority of his thesis research working with sugarcane growers in the Lower Rio Grande Valley during 2010. Blake's thesis research involved greenhouse and field studies evaluating insecticidal management, larval behavior, and host plant resistance to the Mexican rice borer in sugarcane. Blake has also been active in extension activities, participating in sugarcane field days, grower meetings and county agent training sessions. His work is already having a positive impact on sugarcane growers in Texas and Louisiana. While Blake was a student, he served as president of the Entomology Club at LSU, and was an active participant in ESA student competitions including the Linnaean Games and the Student Debate. Blake received his M.S. in Entomology in May of 2011, and is currently continuing to conduct research in sugarcane entomology at LSU.

Blake plans to continue to be active in the scientific community conducting entomological research and making meaningful contributions to agriculture in Louisiana.

#### SEB AWARDS – 2011 ROBERT T. GAST AWARD Best Ph.D. Oral Presentation, Annual SEB Meeting



**JULIEN BEUZELIN** attended the University of Rennes 1, France where he received a B.S. in cell biology & physiology. In his undergraduate experience, he studied nematodes, aphids, and pathogens attacking vegetable, melon, and carrot production. Julien received his M.S. in crop protection from the École Nationale Supérieure Agronomique de Rennes, France. For his M.S. research, he worked with Drs. T. E. Reagan (Louisiana State University) and L. T. Wilson (Texas A&M University), assessing on-farm efficacy of reduced-risk insecticides and aspects of biological control for sugarcane borer management in sugarcane and rice. Julien recently completed his doctoral studies in the Department of Entomology at Louisiana State University with a minor in applied statistics. His dissertation research under Dr. Reagan focused on ecology and pest management of stem borers of sugarcane and rice, and involved extensive stakeholder interactions with farmers and extension agents. Research included on-farm and greenhouse non-crop host, cultural practice, and hurricane impact studies. Julien also studied sugarcane cultivar resistance to aphids, insecticide resistance in the sugarcane borer, and induced resistance to the fall armyworm in conventional and transgenic cotton. Since beginning his Ph.D. studies in 2006, he has published peer-reviewed research articles, 11 Arthropod Management Tests reports, and numerous extension papers. Awards include the LSU Department of Entomology L.D. Newsom Outstanding Ph.D. Student and ESA President's Prize.

#### SEB AWARDS – 2011 SOUTHEASTERN BRANCH STUDENT AWARD

Best M.S. Oral Presentation, Annual SEB Meeting



**JESSICA MOORE-PARKER** from the Louisiana State University Agricultural Center's Department of Entomology was the recipient of the 2011 Outstanding M.S. Oral Paper Presentation titled, "Developing a no-choice feeding field protocol to assess stink bug injury to soybean seed."

Jessica is from Quemado, TX; where she grew up in a rural agricultural community. She realized her interest in entomology after graduating from high school in 2004 by working at the Kunafin insectary rearing parasitic wasps and green lacewings. This prompted her to earn a B.S. degree in Entomology at Texas A&M University completing her degree in May of 2008. As an undergraduate student she gained experience as a research technician in Dr. Patricia Pietrantonio's laboratory where she supported bollworm insecticide resistance surveys. She also assisted Dr. Bradley Hopkins with his PhD research. After graduation, she obtained a summer research position with the USDA-ARS in College Station, TX working with Dr. Charles Suh studying the within-plant distribution of cotton fleahopper adults and nymphs, longevity of adult fleahoppers on various diets, and effectiveness of various action treatment thresholds.

Jessica started her M.S. program at Louisiana State University in June of 2009 and is working with Dr. B. Rogers Leonard. Her research characterizes the pod and seed damage produced by stink bug species of economic importance in soybean. The goal of this project is to improve soybean IPM tactics in Louisiana.

#### SEB AWARDS – 2011 OUTSTANDING PH.D. POSTER, Annual SEB Meeting



VIRNA SAENZ, from North Carolina State University, was recipient of the 2011 Outstanding Ph.D. Student Display Award for "Bed bug population genetic structure in apartment buildings and a survey of *Bartonella henselae* in U.S. bed bug populations." Virna was born and raised in Chimbote, Peru. She received her B.S in Agriculture from the Escuela Agricola Panamericana, Zamorano in Honduras and her M.S in Entomology at the University of Kentucky. Her research with Dr. Lee Townsend focused on the oviposition behavior of tree-hole mosquitoes. Virna is currently a Ph.D. student at North Carolina State University under the advisement of Dr. Ed Vargo and Dr. Coby Schal. Her Ph.D. research focuses on bed bug population genetics, aggregation behavior and disease transmission.

#### SEB AWARDS – 2011 OUTSTANDING M.S. POSTER, Annual SEB Meeting



**EUTYCHUS KARIUKI** was the winner of the M.S. Graduate student SEB M.S. Poster competition, with his poster entitled "Effect of light intensity on distribution and herbivory activity of Gratiana boliviana along the light intensity Eutychus completed his thesis working on gradient." Tropical soda apple (TSA) Solanum viarum-mediated competition among insect herbivores via induced resistance. The specific objective was to determine if previous feeding by Tortoise beetle had adverse effects on beet armyworm and thrips, resulting in reduced oviposition, preference for induced foliage and decreased performance and survival on induced foliage. The Tortoise beetle Gratiana boliviana is currently used as a biological control agent of TSA in the US. This research provided more information on TSA-mediated competition among insect herbivores and the impact of this competition on TSA as a host/reservoir to crop pests and crop disease vectors.

Some of the findings in his study: 1) determined that feeding of *Gratiana boliviana* 3rd instars on the third leaf of TSA had a substantial effect on the survival of beet armyworm neonates; 2) showed that feeding action of *G. boliviana* on TSA had no significant influence on WFT host choice; and 3) that the biological control agent *G. boliviana* provides better control on unshaded plants than on shaded plants, and it is more likely to have a greater impact in terms of defoliation.

Mr. Kariuki started a Ph.D. working on biological control of Hydrilla in Florida springs. Drs. Raymond Hix (FAMU) and Jim Cuda (UF) are his Ph.D. major advisers. He has been a member of the FAMU Linnaean Games Team and currently serves as the FAMU representative on the SEB Student Affairs Committee.

#### SEB AWARDS – 2011 OUTSTANDING B.S. ORAL PRESENTATION, Annual SEB Meeting



**JATAYAH SHEED** was born in Philadelphia, Pennsylvania, and raised by a single mother in Perry, Georgia. Jatayah is the oldest of her four siblings. She is completing her studies in Biology and Spanish at Fort Valley State University in Fort Valley, Georgia. Her research, entitled "Activity in *trans*-Cinnamic Acid, a Bioactive Component of *P. luminescens*", attempted to determine if the *trans*-Cinnamic Acid has antifungal activity against peach scab. The research was conducted in Byron, Georgia under the mentorship of Dr. David Shapiro and was funded by the HBCU-UP grant that was awarded to Dr. George Mbata.

### SWB AWARDS – 2012 JOHN HENRY COMSTOCK AWARD Outstanding Ph.D. Student



APURBA BARMAN grew up in a small village of India in the state Assam, where his family farmed for their livelihoods. Apurba was fortunate to receive a well-rounded education and experience in agriculture during his undergraduate years at Assam Agricultural University, India. The impressive diversity and enormous economic impact of insects beckoned him to pursue a career in entomology. Apurba investigated how to incorporate botanicals with biological control agents for efficient insect pest management in rice ecosystems. Following his research interest in entomology, Apurba studied modes of action of insect growth regulator (chitin synthesis inhibitor) to be used for pest management. He has also had the opportunity to work with two key pests of vegetables in India, i.e., Plutella xylostella, and Helicoverpa armigera, especially populations' genetic variation and resistance to insecticides.

Apurba's interest in entomology and dream for international experience steered him to join the Cotton Entomology Program at former Texas A & M Agricultural Experiment Station at Lubbock, TX, where he received a MS degree from Texas Tech University. Apurba then pursued a doctoral program at Texas A&M University, where he conducted his dissertation research on genetic and phenotypic variation in cotton fleahopper populations as influenced by host plant species and geography.

More than 10 years of postgraduate research experience, education, and the fascination of insects have convinced Apurba to pursue an entomology research career. Apurba's envisioned goal is to address pest problems in agricultural crops and finding ways to manage these pest species by understanding their ecological interactions and evolutionary history. In addition to research, Apurba enjoys communicating his interest and ideas to interested students by mentoring and classroom teaching. Apurba has taught laboratory sections of "Integrated Pest Management" and has directly and indirectly mentored several undergraduate students.

### SWB AWARDS – 2011 PH.D. ORAL PRESENTATION, 1<sup>st</sup> Place

**RACHEL MOHR** is a native Texan, who received her BS in entomology from Texas A&M University in 2004. She earned an MS in entomology from the University of California -Riverside in 2007 under the direction of Dr. Alec Gerry. She returned to Texas A&M in 2008, and will be graduating in May, 2012 with a PhD focused on forensic entomology under the direction of Dr. Jeffery Tomberlin. Her dissertation work focused on the seasonal behavior and ecology of common Texas blow flies such as Cochliomyia macellaria and Chrysomya rufifacies. She developed a novel framework for characterizing the postmortem interval of a decedent based on the interaction of insects with the corpse, which was published in the Annual Review of Entomology in 2011. Her other research focus has been on the developmental tradeoffs made by blow fly larvae under nutritional stress and competition. In 2011, Rachel and her labmates were invited to Malaysia to speak on their current research in forensic entomology. She also competed on the Texas A&M Linnaean Games team, which earned a place in the semi-finals at the 2011 ESA national meeting in Reno. She is currently seeking employment in academia or in national criminal investigation.

### SWB AWARDS – 2011 PH.D. POSTER PRESENTATION, 1<sup>ST</sup> PLACE



REBECCA PACE - In 2003 I entered college as an Entomology major. As I moved through my classes I developed an interest in microbiology. So as I prepared for graduation I applied and was accepted into a microbiology graduate program at the University of Oklahoma Health Sciences Center. In Spring of 2007 I graduated with my BS in Entomology from Oklahoma State University. The following fall I began my graduate program at the University of Oklahoma. My research focused on Borrelia burgdorferi outer surface proteins. As I worked through the microbiology class work and research, I started to miss my Entomology. So as I was finishing my Master's degree, I decided to go back to the field of entomology for my Doctorate degree. In the Summer of 2009 I graduated with my Master's degree in microbiology. The following fall I returned to Oklahoma State to begin my Doctoral program in entomology. When I joined the program with Dr. Wayadande, I knew that it was the perfect fit because it combines both microbiology and entomology. These are my two passions. As I have continued to learn about the connection between entomology and microbiology, I have become increasingly interested in livestock entomology.

This is my third year in the doctoral program. My projects focus on the interactions of plants, flies and bacteria. Last year I finished one of my objectives and have begun my second objective. The first objective focused on the interaction of calliphorid flies (blow flies) with various plants. It gave some insight into the preferences of flies for resting on plants such as lettuce. These interactions are important for understanding the reasons why flies may land on a plant and thus contaminate it. I presented the data from these experiments at the 2010 ESA National Meeting. Then I presented a continuation of this work at the Southwest branch meeting 2011. My other two objectives focus on the fly/bacteria interaction. The purposes are to discover how the flies (house flies and blow flies) carry the bacteria, importantly if the bacteria remain viable and if the flies can transfer viable bacteria to lettuce plants. The bacteria we are using are E. coli 0157:H7 and S. enterica, which are two of the common food-borne bacteria. I presented data for this portion of my work at the 2011 ESA National Meeting.

# $\begin{array}{c} SWB\ AWARDS-2011\\ \text{M.S. ORAL PRESENTATION,}\\ \mathbf{1}^{ST}\ PLACE \end{array}$



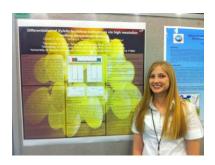
**CASSIE SCHOENTHAL**, originally from Paradise, Texas, is a graduate student at Tarleton State University where she studies the effects of condensed tannins on house flies. She completed her Bachelor of Science in Entomology at Texas A&M University in 2010 and will be returning this June to start her PhD with Dr. Roger Gold.

# $\begin{array}{c} SWB~AWARDS-2011\\ \text{M.S. POSTER PRESENTATION,}\\ \mathbf{1}^{ST}~PLACE \end{array}$



**HELEN KIM VESSELS** graduated from New Mexico State University in 2010 with a Bachelor's of Science degree in the Department of Entomology, Plant Pathology and Weed Science. She currently is working on her Master's degree in the graduate program at NMSU. Her research is on the life history, laboratory rearing, and morphological description of the immature stages of *Narnia femorata*, a cactus-feeding coreid found in southern New Mexico. During this final semester of her graduate work, she looks forward to being an active participant on the NMSU Linnaean team.

# $SWB\ AWARDS-2011 \\ B.S.\ ORAL\ PRESENTATION, 1^{ST}\ PLACE$



**CASSIE SKIPPER** is a native of Tyler, Texas. This past spring, she earned her Bachelor of Science in Biology from the University of Texas at Tyler, where she currently works in a molecular biology lab under the direction of Dr. Blake Bextine. She is continuing her studies to pursue a second Bachelor's degree in Anthropology. In the Bextine Laboratory, her primary research goal is to develop inexpensive and rapid protocols for subspecies differentiation of the xylem-feeding bacterium Xylella fastidiosa, one of which adversely affects the wine industry. Cassie has presented oral and poster presentations on this subject at several meetings over the past 3 years; the Entomological Society of America annual meeting in San Diego, California, the Kansas Entomological Society Annual Meeting in Stillwater, Oklahoma (won second place in the student competition), and the annual meeting of the Southwestern Branch of the Entomological Society of America (SWB ESA) in Amarillo, Texas (won first place in the oral competition). At the 2011 SWB ESA meting Cassie was presented with the Undergraduate Student Achievement in Entomology award. She will be entering graduate school in the Fall of 2012 and aims to receive her doctorate degree in Biological Anthropology. Ultimately, she plans to obtain a professorial position at a respectable university and begin working on her own bioarchaeological research.

### SWB AWARDS – 2011 B.S. POSTER PRESENTATION, 1<sup>ST</sup> PLACE



MELISE SCHMIDT-TAYLOR graduated from New Mexico State University in December of 2011, earning her Bachelor's of Science degree in the Department of Entomology, Plant Pathology, and Weed Science. As an undergraduate she helped design and conduct an independent research project on the seasonal dynamics of flea beetles associated with chile in southern New Mexico. This work led to Melise being the recipient of second and first place awards at the ESA SWB student poster competitions in 2010 and 2011, respectively. Melise recently began her Master's degree in the graduate program at NMSU with Dr. Scott Bundy in the Integrated Pest Management laboratory. She looks forward to starting her master's project on Bagrada hilaris, an invasive stink bug species new to New Mexico. Melise stays active in her department as the president of the NMSU entomology club and as an active member on the NMSU Linnaean team.

### SWB AWARDS – 2012 UNDERGRADUATE STUDENT ACHIEVEMENT IN ENTOMOLOGY



CHRIS POWELL is an undergraduate student majoring in Biology at the University of Texas at Tyler. Chris was involved in molecular toxicology, working on a project involving vector mosquitoes in the genera *Aedes* and *Anopheles*. Chris' research has resulted in three poster presentations, including one at the national meeting of the Entomological Society of America in 2010. Chris' current research focuses on the red imported fire ant and naturally-occurring virus as a potential control agent. This work has resulted in five poster presentations, including the national ESA meeting in 2011 and the upcoming Southwestern branch of ESA meeting.

Chris' excellence in research has been recognized by a number of awards, including President's Prize Runner Up at the 2011 ESA meeting, 1st place in the university-wide poster competition at UT Tyler, and two competitive, monetary research awards. Chris is in the process of applying for graduate schools to pursue a MS degree in entomology.

### SWB AWARDS – 2012 PERCIVAL SCIENTIFIC UNDERGRADUATE STUDENT ACTIVITY AWARD



**JUAN MACIAS** is the recipient of the inaugural Percival Scientific Undergraduate Entomology Student Activity Award (\$250). Juan Macias is a Biology major at The University of Texas at Tyler. Juan has received a fellowship from The Louis Stokes Alliance for Minority Participation (LSAMP), which is funded by the National Science Foundation (NSF). As an LSAMP fellow Juan has won one poster competition held at UT-Tyler, given a poster presentation at the system wide LSAMP conference, and was selected to deliver an Oral presentation to the conference. Through Juan's participation in LSAMP he was invited to attend the World Science Forum held in Budapest, Hungary, sponsored by the Hungarian Academy of Sciences. Juan has subsequently been invited to the European Science Forum in 2012. Juan has also participated in the last ESA-SWB meeting where he gave a poster presentation. Juan is a participant of UT-Tyler's Linnaean Team and has served as a volunteer at the Southwestern Association of Naturalists (SWAN) meeting hosted at UT-Tyler. Juan has also taught a free unofficial course in PERL programming and plans to offer the course again in the spring semester. Juan also serves as a T.A for Dr. Bextine's Cell Biology, an undergraduate mentor to Project SEED students, a summer internship for economically disadvantaged high school students designed to introduce them to the world of Scientific Research, and upholds several responsibilities in the Lab. Juan is the second author on "Rapid biotype differentiation of the potato psyllid (Bactericera cockerelli) using quantitative real time PCR melt curve" which has been submitted to the Journal of Insect Science. Juan has reviewed an article for the Florida Entomologist, Phoresis between Serratia marcescens and Steinernema carpocapsae (Rhabditida: Steinernematidae) During the Infection of Galleria mellonella (Lepidoptera: Pyralidae) Larvae. In addition, Juan is a member of the American Chemical Society, the Entomological Society of America, Beta Beta Biological honor society, Eta Sigma Phi Latin honor society, Biologists of UT Tyler, and The UT Tyler Math club.

### **SATURDAY, 3 MARCH**

 $8:00\ AM-4:00$  Department Heads meeting - Ouachita

**4:00 PM - 6:00** Final Local Arrangements/Program Committee Meeting - Ouachita

### **SUNDAY, 4 MARCH**

8:00 AM - 12:00	Department Heads meeting - Ouachita
9:00 AM - 12:00	Southeastern Branch Student Affairs Committee - Lafayette
9:00 AM - 12:00	Southwestern Branch Student Affairs Committee - Peck
9:00 AM - 1:00	Southeastern Branch Executive Committee Meeting - Hoffman
10:00 AM - 12:00	Southwestern Branch Executive Committee Meeting - Manning
1:00 PM - 2:00	Society of Southwestern Entomologists General Membership Meeting - Manning
1:00 PM - 5:00	Registration - CC 3rd Floor Lobby
1:00 PM - 5:00	S-1049 Multi-State Project on Pecans Meeting - Lafayette
1:00 PM - 9:00	<b>Student Poster Competition Set Up</b> - Riverview Meeting Room
2:00 PM - 4:00	Southeastern Branch Linnaean Games, Round 1 - Salon A, Peabody Ballroom
2:00 PM - 4:00	Southwestern Branch Linnaean Games, Round 1 - Salon C, Peabody Ballroom
2:00 PM - 5:00	S-1034 Regional Biological Control Group Meeting - Manning
3:00 PM - 7:00	<b>Audiovisual and Job Placement</b> - Petit Jean Meeting Room
5:00 PM - 7:00	<b>Southern Corn Working Group</b> - Hoffman
7:00 PM - 9:00	<b>Mixer/Reception (light finger foods)</b> - Pinnacle Room

## MONDAY, 5 MARCH

7:00 AM - 5:00	Audiovisual and Job Placement - Petit Jean Meeting Room
7:00 AM - 5:00	Registration - CC 3rd Floor Lobby
7:00 AM - 8:00	Student Poster Competition Set Up - Riverview Meeting Room
7:00 AM - 8:30	<b>Breakfast</b> - Arkansas Ballroom, East Concourse
8:00 AM - 4:00	<b>Student Poster Competition Judging</b> - Riverview Meeting Room
8:00 AM - 5:00	<b>Student Poster Exhibits</b> - Riverview Meeting Room
8:30 AM - 10:00	Joint Southeastern Branch/Southwestern Branch Plenary Session - Conway Lecture Hall
10:00 AM - 10:30	<b>Break</b> - Conference Center Level 2
10:30 AM - 2:00	<b>B.S. Student Oral Presentations</b> - Neosho Meeting Room
10:30 AM - 2:00	M.S. Student Oral Presentations I - Ouachita Meeting Room
10:30 AM - 2:00	M.S. Student Oral Presentations II - Grampas Meeting Room
10:30 AM - 2:00	M.S. Student Oral Presentations III - Chicot Meeting Room
10:30 AM - 2:00	M.S. Student Oral Presentations IV - White Oak Lecture Hall
10:30 AM - 2:00	<b>Ph.D Student Oral Presentations I</b> - Harris Lecture Hall
10:30 AM - 2:12	<b>Ph.D. Student Oral Presentations II -</b> Conway Lecture Hall
12:00 PM - 1:00	<b>Box Lunches</b> - Arkansas Ballroom, East Concourse, Balcony
1:30 PM - 2:30	<b>Poster Presenters at Poster Presentation</b> - Riverview Meeting Room
2:15 PM - 3:00	<b>Break</b> - Conference Center Level 2
3:30 PM - 5:30	Southeastern Branch Linnaean Games, Final Round - Salon A, Peabody Ballroom

#### M O N D A Y

# MONDAY, 5 MARCH (CONT'D.)

3:30 PM - 5:30	Southwestern Branch Linnaean Games, Final Round - Salon C, Peabody Ballroom
5:00 PM - 7:00	Student Poster Competition Removal - Riverview Meeting Room
5:30 PM - 7:00	<b>Southeastern Branch Student Awards</b> - Salon A, Peabody Ballroom
5:30 PM - 7:00	<b>Southwestern Branch Student Awards -</b> Salon C, Peabody Ballroom
6:30 PM - 9:00	General Poster Set Up - Riverview Meeting Room

## **MONDAY, 5 MARCH**

### JOINT SOUTHEASTERN BRANCH/ SOUTHWESTERN BRANCH PLENARY SESSION

8:00 - 10:30

Conway Lecture Hall

8:00 - 8:05	Branch Presidents Call to Order
8:05 – 8:15	Announcements from Local Arrangements Program Committees
8:15 – 8:45	Branch Presidents' Welcome
8:45 – 9:05	ESA National President's Address
9:05 - 9:20	ESA Executive Director's Message
9:20 - 9:35	Entomology Foundation Report
9:35 – 9:45	Southeastern Branch Representative to the Certification Board
9:45 – 10:00	P-IE Representative Report
10:00 – 10:15	Society of SW Entomologists President
10:15 - 10:30	Friends of IPM Award Presentation

### MONDAY, 5 MARCH

# B.S. STUDENT ORAL PRESENTATION COMPETITION

10:30 - 1:36

Neosho Meeting Room

**Moderator:** Mike Brewer

10:30 AM - 1 Asian Citrus Psyllid (*Diaphorina citri*) transcriptome analysis: prediction of miRNA binding site variation between life stages

**Juan F. Macias Velasco** *University of Texas at Tyler*, Wayne B. Hunter *USDA - ARS*, **Daymon Hail** *University of Texas at Tyler*, **Blake Bextine** *University of Texas at Tyler*.

- 10:42 AM 2 The VTI family of SNARE proteins is essential for tick feeding and mediates saliva secretion Ashley Villarreal University of Southern Mississippi, Steve Adamson University of Southern Mississippi, Rebecca Browning University of Southern Mississippi, Shahid Karim University of Southern Mississippi.
- 10:54 AM 3 Investigation of imidacloprid resistance mechanisms in Western Blackmargined aphids (*Monellia caryella*)

Amanda N. Peel New Mexico State University.

11:06 AM - 4 Influence of SINV-1 on fipronil-treated Solenopsis invicta

Chris M. Powell University of Texas at Tyler, Blake Bextine University of Texas at Tyler.

11:18 AM - 5 Do headless males really make better lovers? Sexual cannibalism in Carolina mantids

Kyle W. Hurley University of Central Arkansas, Nick E. Davis
University of Central Arkansas, David E. Dussourd University of Central Arkansas.

11:30 AM - 6 Analysis of *Candidatus liberibacter* within Potato Psyllid tissue cell culture

Janet Arras University of Texas at Tyler, Chelsea Swatsell University of Texas at Tyler, Wayne Hunter USDA-ARS, US Horticultural Research Lab, Blake Bextine University of Texas at Tyler.

- 11:42 AM 7 Arthropod "rain" in tropical forests Dana Nicole Frederick *University of Arkansas at Little Rock*, Stephen P. Yanoviak *University of Arkansas at Little Rock*.
- 11:54 AM 1:00 PM LUNCH Box Lunches Arkansas Ballroom, East Concourse, Balcony
- 1:00 PM 8 Efficacy of chemical repellents against Otobius megnini and three species of Ixodid ticks Sarah E. Mays Tarleton State University, Chris N. Niebuhr Tarleton State University, David H. Kattes Tarleton State

University, **Jeff B. Breeden** Tarleton State University, **Barry D. Lambert** Tarleton State University.

1:12 PM - 9 Interactions among flea beetles (Coleoptera: Chrysomelidae), chile, and solanaceous weed species in southern New Mexico

Melise E. Schmidt New Mexico State University, C. Scott Bundy New Mexico State University.

1:24 PM - 10 High resolution melting temperature diagnostics for *Xylella fastidiosa* subspecies determination Cassie E. Skipper *University of Texas at Tyler*, Blake Bextine *University of Texas at Tyler*.

### MONDAY, 5 MARCH

# M.S. STUDENT ORAL PRESENTATION COMPETITION I

10:30-1:24

**Ouachita Meeting Room** 

**Moderator:** Bonnie Pendleton

10:30 AM - 11 Quantifying house fly (Diptera: Muscidae) development in dairy cattle manure containing condensed tannins

Cassie A. Schoenthal Tarleton State University.

10:42 AM - 12 Detecting spinose ear tick (Otobius megnini) presence using host and habitat characteristics
Christopher N. Niebuhr Tarleton State University, Jeff B.
Breeden Tarleton State University, David H. Kattes Tarleton State University, Barry D. Lambert Tarleton State University, Adam I. Eyres Fossil Rim Wildlife Center, Holly J. Haefele Fossil Rim Wildlife Center.

10:54 AM - 13 Molecular analysis of Citrus Rust (*Phyllocoptruta oleivora*) populations in Texas Steven Michael Reyna *Texas A&M University - Kingsville*, Mamoudou Setamou *Texas A&M University - Kingsville*, Jesse H. de Leon *USDA*, *ARS*, *KSARC*.

11:06 AM - 14 Efficacy of Storcide<sup>TM</sup> II and liquid formulation of spinosad (Contain) against phosphine-resistant *Rhyzopertha dominica* and *Tribolium castaneum* on wheat

Nisha Shakya Oklahoma State University, George P. Opit Oklahoma State University, Justin Talley Oklahoma State University, Carol L. Jones Oklahoma State University.

11:18 AM - 15 Development of molecular tools for designations of the *Diorhabda* (Coleoptera: Chrysomelidae) species complex

Erin Jones Texas A&M University, Jerry Michels Texas A&M University, Rocky Ward West Texas A&M University, Madeleine Smith Texas A&M University.

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ity,

11:30 AM - 16 Eliciting aggregation response in *Cotinis nitida* using artificial lure stations
Kimberly Thompson Tarleton State University, Roger D.
Wittie Tarleton State University.

11:42 AM - 17 Effect of pollen-mediated gene flow of transgene by a multi-toxin Bt corn variety on survivorship and growth of corn earworm

Arun Babu M Mississippi Sta State Universit

Moved to MS Session II at 1:24 pm (Grampas Room)

Clint Allen USDA – ARS.

11:54 AM - 1:00 PM LUNCH - Box Lunches - Arkansas Ballroom, East Concourse, Balcony

1:00 PM - 18 Evolutionary and co-evolutionary phylogenies of insect vectors that transmit Palm Phytoplasma

Adam L. Booth University of Texas at Tyler, Susan Halbert Florida Department of Agriculture and Consumer Services, Blake Bextine University of Texas at Tyler.

1:12 PM - 19 Effects of micro and macro nutrients on major citrus pests in Texas

**Diego Garza** Texas A&M University - Kingsville, **Shad Nelson** Texas A&M University - Kingsville, **Mamoudou Setamou** Texas A&M University - Kingsville.

### MONDAY, 5 MARCH

# M.S. STUDENT ORAL PRESENTATION COMPETITION II

10:30-1:24

**Grampas Meeting Room** 

**Moderators:** Hugh Conway and Joe E. Eger

10:30 AM - 20 Phenology and natural enemies of oak lecanium scale *Parthenolecanium quercifex* (Fitch) (Hemiptera:Coccidae) in South Carolina Ernesto Robayo Camacho Clemson University, Juang-Horng Chong Clemson University.

10:42 AM - 21 Tarnished plant bug, Lygus lineolaris, a potential biotype difference in the Mississippi Delta Brian P. Adams Mississippi State University, J. Gore Mississippi State University, Angus L. Catchot Mississippi State University, Fred R. Musser Mississippi State University.

10:54 AM - 22 Evaluation of monitoring methods for the Redbay Ambrosia Beetle (Coleoptera Curculionidae: Scolytinae) in the Apalachicola National Forest Latasha D. Tanner Florida Agricultural and Mechanical University, Lambert Kanga Florida Agricultural and Mechanical University.

11:06 AM - 23 Moisture content changes in pine logs and its effects on oviposition by *Sirex nigricornis* (Hymenoptera: Siricidae)

Jessica Hartshorn University of Arkansas, F. M. Stephen University of Arkansas.

### 11:18 AM - 24 Impact of corn earworm (*Helicoverpa zea*) on field corn yield

Jenny Bibb Mississippi State University, Angus L. Catchot Mississippi State University, Donald Cook Mississippi State University, Fred Musser Mississippi State University, Scott Stewart University of Tennessee, B. Roger Leonard Louisiana State University Agricultural Center, G. David Buntin University of Georgia.

11:30 AM - 25 Effects of simulated threecornered alfalfa hopper (Spissistilus festinus Say) injury on soybean yield J. Eric Howard University of Arkansas, Division of Agriculture - Cooperative Extension Service, D. Scott Akin University of Arkansas, Division of Agriculture - Cooperative Extension Service, Gus Lorenz University of Arkansas, Donald Cook Mississippi State University, Jeffrey Gore Mississippi State University, Scott Stewart University of Tennessee, R.N. Wiedenmann University of Arkansas.

# 11:42 AM - 26 Effect of intertrap distance on the performance of Mexican Rice Borer (Lepidoptera: Crambidae) pheromone traps

**B.E.** Wilson Louisiana State University AgCenter, J.M. Beuzelin LSU AgCenter, J.D. Allison Louisiana State University AgCenter, T.E. Reagan Louisiana State University AgCenter, M.T. VanWeelden LSU AgCenter.

11:54 AM - 1:00 PM LUNCH - Box Lunches - Arkansas Ballroom, East Concourse, Balcony

1:00 PM - 27 St. Augustine grass resistance against the southern chinch bug (*Blissus insularis*)
Katharine Youngs North Carolina State University, Yasmin J. Cardoza North Carolina State University.

1:12 PM - 28 Dispersal of Larinus minutus (Coleoptera: Curculionidae), a biological control agent of spotted knapweed, from release locations in Arkansas Adam M. Alford University of Arkansas, Carey R. Minteer University of Arkansas, Jun Shen University of Arkansas, Timothy J. Kring University of Arkansas.

# 1:24 AM - 17 Effect of pollen-mediated gene flow of transgene by a multi-toxin Bt corn variety on survivorship and growth of corn earworm

Arun Babu Mississippi State University, Fred R. Musser Mississippi State University, Michael A. Caprio Mississippi State University, Donald Cook Mississippi State University, Clint Allen USDA – ARS.

Moved from MS Session I at 11:42 am (Ouachita Room)

#### M O N D A Y

### MONDAY, 5 MARCH

# M.S. STUDENT ORAL PRESENTATION COMPETITION III

10:30 – 1:24 Chicot Meeting Room

**Moderator:** Phillip Kaufman

10:30 AM - 29 Trichomycete fungi associated with mosquito larvae (Diptera: Culicidae) in northeastern Arkansas

**Jason P. Gaspar** Arkansas State University, **Tanja Mckay** Arkansas State University, **Martin J. Huss** Arkansas State University.

10:42 AM - 30 *Beauveria bassiana* efficacy against the horn fly (*Haematobia irritans*): implications for biological control in beef cattle herds

Chris J. Holderman University of Florida, Phillip E. Kaufman University of Florida, Christopher J. Geden USDA – ARS.

10:54 AM - 31 Location of house fly and stable fly (Diptera: Muscidae) hosts by *Spalangia cameroni* (Hymenoptera: Pteromalidae) in substrates commonly found on equestrian farms

Erika Machtinger University of Florida, C. Geden USDA - ARS, Norman C. Leppla University of Florida, Jerome A. Hogsette USDA – ARS.

11:06 AM - 32 Characterization of *Rickettsia parkeri* infection in *Amblyomma maculatum* (Acari: Ixodidae) by quantitative real-time polymerase chain reaction Khem Raj B.C *University of Southern Mississippi*, Shahid Karim *University of Southern Mississippi*.

11:18 AM - 33 Dissemination of exotic ticks and Tickborne Spotted Fever Group rickettsial agents in the USA by migrating songbird species

Nabanita Mukherjee University of Southern Mississippi, Michael Sellers University of Southern Mississippi, Steven W. Adamson University of Southern Mississippi, Frank Moore University of Southern Mississippi, Shahid Karim University of Southern Mississippi.

11:30 AM - 34 Extraction efficiency of heat escape and flotation techniques using the common house dust mite, *Dermatophagoides pteronyssinus*Ashley E. Roden *University of Georgia*, Brian Forschler *University of Georgia*.

11:42 AM - 35 Wood preference in four species of *Reticulitermes* 

Gretchen Perkins University of Georgia, Brian T. Forschler University of Georgia.

1:00 PM - 36 RNAi mediated depletion of NSF and SNAP-25 impairs the feeding of *Amblyomma maculatum* Rebecca Browning University of Southern Mississippi, Shahid Karim University of Southern Mississippi.

1:12 PM - 37 Deciphering the tick cement cone Lacey Sipsey University of Southern Mississippi, Chien-Chung Chao Naval Medical Research Center, Mithun Bhattacharya University of Southern Mississippi, Sarah Morgan University of Southern Mississippi, Wei-Mei Ching Naval Medical Research Center, Shahid Karim University of Southern Mississippi.

### MONDAY, 5 MARCH

# M.S. STUDENT ORAL PRESENTATION COMPETITION IV

**10:30 – 1:24**White Oak Lecture Hall

Moderators: Josh Temple and Scott Akin

10:30 AM - 38 Geographic variation of diapause in *Nezara* viridula (Hemiptera: Pentatomidae)
Alexander Ko Winthrop University.

10:42 AM - 39 Nuclear fingerprinting: establishing identification methods for pest species in the Simulium jenningsi species group (Diptera: Simuliidae) Gail Senatore University of Tennessee, J. Kevin Moulton University of Tennessee.

10:54 AM - 40 Pathogens and biological control of small hive beetles (*Aethina tumida*) in Arkansas Natasha A. Wright *University of Arkansas*, D.C. Steinkraus *University of Arkansas*.

11:06 AM - 41 Does the presence of prey reduce damage to turfgrass by mole crickets (Orthoptera: Gryllotalpidae)? Yao Xu Auburn University, David W. Held Auburn University, Xing Ping Hu Auburn University.

11:18 AM - 42 Impact of water management on seed treatments in rice
Andrew Adams Mississippi State University.

11:30 AM - 43 Oviposition response of Sirex nigricornis to Ips-colonized bolts
Ace Lynn-Miller University of Arkansas, Fred M. Stephen University of Arkansas.

### 11:42 AM - 44 Effects of Japanese beetle and silk clipping in field corn

Sandy Steckel University of Tennessee, Scott Stewart University of Tennessee, Kelly V. Tindall University of Missouri.

11:54 AM - 1:00 PM LUNCH - Box Lunches - Arkansas Ballroom, East Concourse, Balcony

M O N D A Y

## 1:00 PM - 45 Potential chemical and biological control of *Pityophthorus juglandis* in East Tennessee

Katheryne Nix University of Tennessee, Knoxville, Paris Lambdin University of Tennessee, Knoxville, Jerome Grant University of Tennessee, Knoxville, Mark Windham University of Tennessee, Knoxville, Albert E. Mayfield USDA - Forest Service, Paul Merten USDA - Forest Service, Joseph Doccola Arborjet, Inc.

1:12 PM - 46 Cricotopus lebetis (Diptera: Chironomidae), a fortuitous biological control agent of Hydrilla verticillata Karen N. Stratman University of Florida, Bill Overholt University of Florida, Jim Cuda University of Florida, Mike Netherland University of Florida, P. Chris Wilson University of Florida.

### MONDAY, 5 MARCH

# PH.D. STUDENT ORAL PRESENTATION COMPETITION I

**10:30 – 1:48** Harris Lecture Hall

Moderator: Glenn Studebaker

10:30 AM - 47 Bacteriophage variants affect pea aphid (Acyrthosiphon pisum) resistance to the parasitoid Aphidius ervi

**Stephanie Weldon** *University of Georgia*, **Adam J. Martinez** *University of Georgia*, **Kerry M. Oliver** *University of Georgia*.

10:42 AM - 48 Coordinated interaction between the mosquito circulatory and immune systems following various immune stimuli

Jonas G. King Vanderbilt University, Julian F. Hillyer Vanderbilt University.

10:54 AM - 49 The role of a G-protein coupled receptor in insecticide resistance of mosquitoes, *Culex quinquefasciatus* Ting Li *Auburn University*, Nannan Liu *Auburn University*.

11:06 AM - 50 Analysis of amylase and glucosidase as receptors for *Bacillus thuringiensis* Cry11Ba in mosquito *Anopheles gambiae*Oi Zhang *University of Georgia*.

- 11:18 AM 51 Mulch preferences of the Asian Cockroach Blattella asahinai Mizukubo (Dictyoptera: Blattellidae) Edward Snoddy Auburn University, Arthur G. Appel Auburn University.
- 11:30 AM 52 Combined effects of *Bt*-expressing corn and beneficial soil microbes on Western corn rootworm (*Diabrotica virgifera virgifera*) behavior

  Stephanie L. Gorski North Carolina State University, Yasmin J. Cardoza North Carolina State University.
- 11:42 AM 53 Host range of Ovavesicula popilliae, a microsporidian pathogen of Japanese beetles used as a biological control agent
  B. M. Petty University of Arkansas, D. T. Johnson University of Arkansas, D. C. Steinkraus University of Arkansas.
- 11:54 AM 1:00 PM LUNCH Box Lunches Arkansas Ballroom, East Concourse, Balcony
- 1:00 PM 54 Identification of cactus-derived volatile organic compounds induced by cactus boring moth herbivory using SPME sampling and GC/IT-MS analysis Anastasia M. Woodard Arkansas State University, Richard A. F. Warby Arkansas State University, Travis D. Marsico Arkansas State University.
- 1:12 PM 55 Diversity and stratification of Psocoptera associated with Eastern Hemlock in the southern Appalachians

  Corlo Coota University of Taylogasea Poris Lombdin

Carla Coots University of Tennessee, Paris Lambdin University of Tennessee, Jerome Grant University of Tennessee, Edward Mockford Illinois State University, Rusty Rhea USDA - Forest Service.

- 1:24 PM 56 The pentatomid hunters: molecular tracking of predation on stink bugs (Hemiptera: Pentatomidae) in cotton and soybeans Kacie J. Athey University of Kentucky, John R. Ruberson University of Georgia, James D. Harwood University of Kentucky.
- 1:36 PM 57 Integrating natural weed strips in winter wheat production promotes biological control Katelyn A. Kowles University of Kentucky, Douglas W. Johnson University of Kentucky, James D. Harwood University of Kentucky.

### MONDAY, 5 MARCH

### PH.D. STUDENT ORAL PRESENTATION COMPETITION II

10:30-2:12

Conway Lecture Hall

**Moderators:** Ed Bynum and Jarrod T. Hardke

10:30 AM - 58 Patterns of ant co-occurrence vary in space and time with increasing resource dispersion Jesse Czekanski-Moir University of Oklahoma.

10:42 AM - 59 Movement of foodborne pathogens, Escherichia coli O157:H7 and Salmonella enterica, to lettuce by the Blow fly *Phormia regina* (Meigen) Rebecca C. Pace Oklahoma State University, J Talley Oklahoma State University, J. Fletcher Oklahoma State University, U. DeSilva Oklahoma State University, A. Wayadande Oklahoma State University.

10:54 AM - 60 Using GIS interpolation to depict efficacy of Advance Carpenter Ant Bait® as a stand-alone treatment against Nylanderia sp. nr. pubens Danny McDonald Texas A&M University, Bart Drees Texas A&M University, Roger Gold Texas A&M University.

- 11:06 AM 61 Damage and abundance of red-banded stink bug, Piezodorus guildinii, in Texas soybeans Suhas Vyavhare Texas A&M University, M.O. Way Texas AgriLife Research & Extension Center, Raul F. Medina Texas A&M University.
- 11:18 AM 62 Towards understanding plant traits that influence herbivory by Western Flower Thrips on cotton (Gossypium hirsutum) Justin Fiene Texas A&M University, Lauren Kalns Texas

A&M University, Greg Sword Texas A&M University.

11:30 AM - 63 Use of remote sensing to monitor the effectiveness of spotted knapweed biological control programs

Carey R. Minteer University of Arkansas, Timothy J. Kring University of Arkansas, Jason A. Tullis University of Arkansas.

11:42 AM - 64 Impact and management of Megacopta cribraria (Hemiptera: Plataspidae) in soybeans Nicholas J. Seiter Clemson University, Jeremy K. Greene Clemson University, Francis P. F. Reay-Jones Clemson University, Phillip M. Roberts University of Georgia, Kristen Carter Clemson University, Ginger Devinney Clemson University.

11:54 AM - 1:00 PM **LUNCH - Box Lunches - Arkansas** Ballroom, East Concourse, Balcony 1:00 PM - 65 Alternative monitoring and control tactics for Rednecked Cane Borer, Agrilus ruficollis, in blackberries Soo-Hoon Samuel Kim University of Arkansas, Clint E. Trammel University of Arkansas, Barbara Lewis University of Arkansas, Donn T. Johnson University of Arkansas.

1:12 PM - 66 Floral farmscaping effects on predator abundance and efficacy

Obinna Lebechukwu Aduba University of Georgia, John R. Ruberson University of Georgia, Peter Hartel University of Georgia.

1:24 PM - 67 Selectivity of Genuity VT3 Pro field corn on Cotton Bollworm, *Helicoverpa zea*, populations infesting dual-gene transgenic cotton

Ben Von Kanel Mississippi State University, Angus Catchot Mississippi State University, Jeff Gore Mississippi State University, Fred Musser Mississippi State University, Ryan Jackson Mississippi State University.

1:36 PM - 68 Border applications of insecticide to control stink bugs (Hemiptera: Pentatomidae) in cotton Grant L. Pilkay Clemson University, F.P.F. Reay-Jones Clemson University, Jeremy K. Greene Clemson University, Michael D. Toews University of Georgia.

1:48 PM - 69 Aphid population and species diversity in relation to spread of Sweetpotato feathery mottle virus in Louisiana

Everlyne Nafula Wosula Louisiana State University, Jeffrey A. Davis Louisiana State University AgCenter, Christopher Clark Louisiana State University.

2:00 PM - 70 Red imported fire ant (Hymenoptera: Formicidae) predation on Mexican rice borer (Lepidoptera: Crambidae) in crop and non-crop habitats
M.T. VanWeelden Louisiana State University AgCenter, J.M Beuzelin Louisiana State University AgCenter, B.E. Wilson LSU AgCenter, T.E. Reagan Louisiana State University AgCenter.

### **MONDAY, 5 MARCH**

# B.S. STUDENT POSTER PRESENTATION COMPETITION

8:00 AM to 5:00 PM

Riverview Meeting Room

Presenters at Posters from 1:30 to 2:30 PM

DSP1 Molecular identification of fungal pathogens of Varroa Mite in honey bee colonies and susceptibility of Varroa to new generations of insecticides

Courtnee Eddington Florida A&M University, Lambert H. B

Kanga Florida A&M University.

DSP2 Establishment and maintenance of *Solenopsis invicta* cell cultures

Justin R. Hazlerig University of Texas at Tyler, Wayne Hunter USDA-ARS, US Horticultural Research Lab, Chris Powell University of Texas at Tyler, Blake Bextine University of Texas at Tyler.

DSP3 Sub-lethal effects of chlorantraniliprole and spinetoram on larval development of select Noctuids Matthew R. Foster Louisiana State University Agricultural Center, Jessica L. Parker Louisiana State University Agricultural Center, Joshua Temple DuPont Crop Protection, Courtney Jackson Louisiana State University Agricultural Center, B. Rogers Leonard Louisiana State University Agricultural Center.

DSP4 What factors affect nest site selection by *Polistes metricus* and *Polistes carolina?* 

Cade G. Morris Oklahoma State University, Bart Kensinger Oklahoma State University, Barney Luttbeg Oklahoma State University.

DSP5 In vitro study to manage southern green stink bug, Nezara viridula using various strains of Beauveria bassiana Kaneisha Barr Florida A&M University, Moses Kairo Florida A&M University, Haseeb Muhammad Florida A&M University.

DSP6 Prevalence of native entomopathogenic nematodes (EPN) in organic versus conventional wheat and beef production systems in Oklahoma
Xandra Robideau Oklahoma State University.

DSP7 Comparative phylogenetic analysis of evolutionary and coevolutionary pathways within the potato psyllid (*Bactericera cockerelli*)

**Jessica Woodruff** *University of Texas at Tyler*, **Daymon Hail** *University of Texas at Tyler*, **Blake Bextine** *University of Texas at Tyler*.

DSP8 New host plant and distribution records of Tephritidae (Diptera) from Texas, with notes on parasitism of Tephritidae by Opiinae (Hymenoptera: Braconidae) Catherine Saenz Texas A&M University, Christopher Wilson Texas A&M University, Lauren Ward Texas A&M University, Kate Harrell Texas A&M University, Robert Wharton Texas A&M University.

DSP9 Notes on new state records and behavior of Pompilidae in Arkansas Clinton E. Trammel University of Arkansas, Donn T. Johnson University of Arkansas.

DSP10 Identification and characterization of microbes in the digestive tracts of hardwood-boring beetles Barbara Putnam Delta State University, Tanya K. McKinney Delta State University, Ellen S. Green Delta State University, Elizabeth Fike Delta State University, Daniel Walker Delta State University, D. Rashad Warren Delta State University, Nathan Schiff USDA Forest Service.

### MONDAY, 5 MARCH

# M.S. STUDENT POSTER PRESENTATION COMPETITION

#### 8:00 AM to 5:00 PM

Riverview Meeting Room

Presenters at Posters from 1:30 to 2:30 PM

DSP11 Molecular characterization and pathogenicity of fungal isolates for use against the small hive beetle, *Aethina tumida*, a destructive pest of honey bee, *Apis mellifera*, colonies

Saundra A. Wheeler Florida A&M University, Lambert H. B. Kanga Florida A&M University.

DSP12 Development and evaluation of mtCOI PCR primers with 5' AT-rich flaps for rapid identification of *Bemisia tabaci* B biotype

Sharon Andreason Oklahoma State University, Judith K. Brown University of Arizona, Jacqueline Fletcher Oklahoma State University, Francisco Ochoa-Corona Oklahoma State University, Astri Wayadande Oklahoma State University.

DSP13 Evaluation of transgenic corn containing single and multiple genes of Bacillus thuringiensis against Cry1F-susceptible and -resistant populations of the fall armyworm Ying Niu Louisiana State University Agricultural Center, Liping Zhang Louisiana State University Agricultural Center, Fei Yang Louisiana State University Agricultural Center, David Wangila Louisiana State University Agricultural Center, B. Rogers Leonard Louisiana State University Agricultural Center, Fangneng Huang Louisiana State University Agricultural Center.

DSP14 Jaapiella ivannikovi (Diptera - Cecidomyiidae) as a biocontrol for New Mexico Russian knapweed (Rhaponticum repens)

Joshua R. Brown New Mexico State University, C.S. Bundy New Mexico State University.

DSP15 Relative susceptibility of selected potato cultivars to two wireworm species

**Kevin W. Langdon** *North Carolina State University*, **Mark R. Abney** *North Carolina State University*.

DSP16 Cell culture based propagation of the glassy-winged sharpshooter (*Homalodisca vitripennis*) as a method to replicate *Homalodisca coagulata* virus-01 (HOCV-01) for vector management

**Anna Biesbrock** *University of Texas at Tyler*, **Wayne B. Hunter** *USDA* - *ARS*, **Blake Bextine** *University of Texas at Tyler*.

DSP17 Rediscovering deodar weevil and its potential as a mortality factor in intensively managed Arkansas pine forests

**Chandler S. Barton** *University of Arkansas*, **Fred M. Stephen** *University of Arkansas*.

DSP18 Pyrosequencing-based symbiont community analysis for use in understanding potato psyllid (*Bactericera cockerelli*) population dynamics

Alex Arp *University of Texas at Tyler*, Blake Bextine

University of Texas at Tyler.

DSP19 Ethanol- a prerelease dip for parasitized aphids on plants to avoid release of live hosts or plant diseases
Livier Guizar-Guzman Universidad Autonoma Agraria

Antonio Narro, O. Eduardo Rosales-Escobar Universidad Autonoma Agraria Antonio Narro, Sergio R. Sanchez-Pena Universidad Autonoma Agraria Antonio Narro.

DSP20 A comparative study on honey bee health (*Apis mellifera*) in conventional and organic beekeepings Shalom Siebert Florida A&M University, Lambert H. B Kanga Florida A&M University.

DSP21 Effects of soil and foliar calcium sources on the bionomics of Asian Citrus Psyllid (*Diaphorina citri* Kuwayama)

Marisol Esparza Texas A&M University - Kingsville Citrus Center.

DSP22 Larval survival of Sugarcane Borer Diatraea saccharalis (F.) in different plant parts of non-Bt and Bt corn David Sindani Wangila Louisiana State University AgCenter, B. Rogers Leonard Louisiana State University AgCenter, Liping Zhang Louisiana State University AgCenter, Yaoyu Bai Louisiana State University AgCenter, Fangneng Huang Louisiana State University AgCenter.

DSP23 Statewide survey of entomopathogenic nematodes (EPN) across Oklahoma's different ecoregions: a profile of land use practices and their effect on local EPN populations Kyle Risser Oklahoma State University.

DSP24 A faunistic survey of mealybugs (Hemiptera: Pseudococcidae) and their natural enemies occurring on coffee (Coffea arabica) and cacao (Theobroma cacao) agroecosystems in the Dominican Republic Enger German-Ramirez Florida A&M University, Moses Kairo Florida A&M University.

DSP25 Morphological features for sex determination of *Alphitobius diaperinus* (Panzer) (Coleoptera: Tenebrionidae) across multiple stadia

**Lauren Ward** Texas A&M University, **Jesus Esquivel** USDA - ARS, **Tawni L. Crippen** USDA – ARS.

DSP26 Impact of corn earworm (*Helicoverpa zea*) on field corn grain quality

Jenny Bibb Mississippi State University, Angus L. Catchot
Mississippi State
University, Fred
Canceled
University, Scott

Stewart University of Tennessee, B. Roger Leonard Louisiana State University Agricultural Center, G. David Buntin University of Georgia.

DSP27 Phylogenetic relationship of two subspecies of *Lygaeus kalmii* (Stål) (Hemiptera: Heteroptera: Lygaeidae) in North America

Wendy G. Marchant New Mexico State University, C. Scott Bundy New Mexico State University, Merrill H. Sweet, II New Mexico State University, Stephen J. Hanson New Mexico State University, Jorge Achata New Mexico State University.

DSP28 Preliminary life history and laboratory rearing of *Narnia femorata* Stål (Hemiptera: Heteroptera: Coreidae) in southern New Mexico

Helen Kim Vessels New Mexico State University, C. Scott Bundy New Mexico State University.

DSP29 Response of soil Arthropods to controlled burning at Haynes Bottom Wildlife Management Area, Montgomery County, Tennessee

**Brittany Jones** Austin Peay State University, **Willodean Burton** Austin Peay State University, **Donald Sudbrink** Austin Peay State University.

### MONDAY, 5 MARCH

# PH.D. STUDENT POSTER PRESENTATION COMPETITION

#### 8:00 AM to 5:00 PM

Riverview Meeting Room

Presenters at Posters from 1:30 to 2:30 PM

DSP30 Population growth of the psocid species *Liposcelis* fusciceps at constant temperatures and relative humidities Sandipa G. Gautam Oklahoma State University, G. P. Opit Oklahoma State University, Kandara Shakya Oklahoma State University.

DSP31 Whole transcriptome analysis of cytochrome P450 genes and their expression profiles in insecticide resistant house flies, *Musca domestica* 

Ming Li Auburn University, William R. Reid Auburn University, Nannan Liu Auburn University.

DSP32 Cytochrome P450s: their expression profiles and roles in insecticide resistant mosquitoes, *Culex quinquefasciatus* 

Ting Yang Auburn University, Nannan Liu Auburn University.

DSP33 Temporal gene expression profiles in the mosquito Culex quinquefasciatus prior to the first blood meal acquisition

William R. Reid Auburn University, Nannan Liu Auburn University.

DSP34 Lagged regression: applications for retrospective temperature estimations in forensic entomology Jonathan A. Cammack North Carolina State University, Lena M. Guisewite North Carolina State University, Peter Bloomfield North Carolina State University, D. Wes Watson North Carolina State University.

DSP35 The distributions and genetic diversity of the *Xylocopa* of the eastern United States
Amber D. Tripodi *University of Arkansas*, Allen L. Szalanski *University of Arkansas*.

DSP36 LUCID key to the genera of New World Monotomidae Thomas C. McElrath University of Georgia, Joseph V. McHugh University of Georgia.

DSP37 The utility of transcriptomes in Diptera phylogenetics

Keith M. Bayless North Carolina State University, Michelle Trautwein North Carolina State University, Brian M. Wiegmann North Carolina State University.

### DSP38 Ant communities of Ozark forests are impacted by prescribed fire

Robin M. Verble University of Arkansas at Little Rock, Stephen P. Yanoviak University of Arkansas at Little Rock.

## **DSP39** Population dynamics of Rice Stink Bug (*Oebalus pugnax*) - the role of host plants

George Awuni Mississippi State University, J. Gore Mississippi State University, Fred R. Musser Mississippi State University, D. Cook Mississippi State University.

DSP40 Impact assessment of predators of Hemlock Woolly Adelgid on Eastern Hemlock using ortho-digital imagery Abdul Hakeem University of Tennessee, Jerome Grant University of Tennessee, Gregory J. Wiggins University of Tennessee, Rusty Rhea USDA - Forest Service, Paris L. Lambdin University of Tennessee, Frank A. Hale University of Tennessee.

### DSP41 A potential new strategy for spraying stink bugs in cotton

Ishakh Pulakkatu-thodi University of Georgia, Jeremy Greene Clemson University, Dominic Reisig North Carolina State University, F.P.F. Reay-Jones Clemson University Pee Dee Research and Education Center, Michael D. Toews University of Georgia.

# DSP42 Assessing abundance and damage potential of an invasive thrips species *Scirtothrips dorsalis* (Thysanoptera: Thripidae) in south Florida

Vivek Kumar University of Florida, Dakshina Seal University of Florida, Garima Kakkar University of Florida, Cindy L. McKenzie USDA - ARS, Lance S. Osborne University of Florida.

#### DSP43 Damage of corn earworm in mixed plantings of non-Bt and Bt corn

Fei Yang Louisiana State University Agricultural Center, B.R. Leonard Louisiana State University Agricultural Center, Liping Zhang Louisiana State University Agricultural Center, Yaoyu Bai Louisiana State University Agricultural Center, Graham P. Head Monsanto Company, David Wangila Louisiana State University Agricultural Center, Ying Niu Louisiana State University Agricultural Center, Fangneng Huang Louisiana State University Agricultural Center.

#### DSP44 Impact of fatty acid desaturases in Arabidopsis on the Green Peach Aphid, Myzus persicae

**Jiamei Li** University of Arkansas, **Jorigtoo Chen** University of Arkansas, **Carlos Avila** University of Arkansas, **Fiona Goggin** University of Arkansas.

DSP45 Life table analysis of soybean looper, Chrysodeixis includens (Walker), on cowpea, sweet potato, and soybean Miyanda N. Moonga Louisiana State University AgCenter, Jeffrey A. Davis Louisiana State University AgCenter, Arthur R. Richter Louisiana State University AgCenter, Sebe Brown Louisiana State University AgCenter.

M C N D

## DSP97 Leafhoppers as potential vectors of Blackberry Yellow Vein Disease

Kevin Durden University of Arkansas, Clinton E. Trammel University of Arkansas, Barbara Lewis University of Arkansas, Ioannis E. Tzanetkis University of Arkansas, Donn T. Johnson

University of Arkansas. Move

Moved from Tuesday Poster Session Riverview Meeting Room

### **MONDAY, 5 MARCH**

### SOUTHEASTERN BRANCH LINNAEAN GAMES, FINAL ROUND

3:30 – 5:30 Salon A Peabody Ballroom

### **MONDAY, 5 MARCH**

### SOUTHWESTERN BRANCH LINNAEAN GAMES, FINAL ROUND

3:30 – 5:30 Salon C Peabody Ballroom

### **MONDAY, 5 MARCH**

### SOUTHEASTERN BRANCH STUDENT AWARDS

5:30 – 7:00 Salon A Peabody Ballroom

### **MONDAY, 5 MARCH**

### SOUTHWESTERN BRANCH STUDENT AWARDS

5:30 – 7:00 Salon C Peabody Ballroom

## **TUESDAY, 6 MARCH**

7:00 AM - 5:00	<b>Audiovisual and Job Placement</b> - Petit Jean Meeting Room
7:00 AM - 5:00	Registration - CC 3rd Floor Lobby
7:00 AM - 8:00	<b>Coffee and Tea</b> - Arkansas Ballroom, East Concourse
7:00 AM - 8:00	General Poster Set Up - Riverview Meeting Room
8:00 AM - 5:00	General Poster Presentations (Medical, Urban and Veterinary Entomology; Plant–Insect Ecosystems; Physiology, Biochemistry, and Toxicology; and Systematics, Evolution, and Biodiversity Sections) - Riverview Meeting Room
8:00 AM - 10:00	Contributed Papers: Plant-Insect Ecosystems: Soybeans and Stinkbugs - White Oak Lecture Hall
8:00 AM - 10:00	Spotted wing drosophila, Drosophila suzukii, in the Southeast: spread, status, and management challenges - Chicot Meeting Room
8:00 AM - 10:00	<b>Armyworm Symposium</b> - Harris Lecture Hall
8:00 AM - 12:00	Functional Genomics of Tick-Pathogen Interface - Grampas Meeting Room
10:00 AM - 10:15	<b>Break</b> - Conference Center Level 2
10:15 AM - 11:50	Contributed Papers: Physiology, Biochemistry, and Toxicology Section and Systematics, Evolution, and Biodiversity Section - Chicot Meeting Room
10:15 AM - 12:00	Contributed Papers: Plant-Insect Ecosystems: Cotton and Corn - White Oak Lecture Hall
10:15 AM - 12:00	<b>Turf and Ornamentals Symposium -</b> Harris Lecture Hall
12:15 PM - 1:30	Joint Southeastern Branch/Southwestern Branch Awards Ceremony/Luncheon and Photo Salon – Salons A/B/C Peabody Ballroom
2:00 PM - 3:30	Symposium: Biological Control Success Stories - Chicot Meeting Room

#### T U E S D A

### TUESDAY, 6 MARCH (CONT'D.)

2:00 PM - 3:30	<b>Contributed Papers: Medical, Urban and Veterinary Entomology Section -</b> Grampas Meeting Room
2:00 PM - 5:00	Symposium: Advancing IPM in Pecan Systems - Harris Lecture Hall
2:00 PM - 5:00	<b>Vegetable Symposium -</b> White Oak Lecture Hall
2:30 PM - 3:30	Poster Presenters at Poster Presentations - Riverview Meeting Room
3:30 PM - 3:45	<b>Break</b> - Conference Center Level 2
3:45 PM - 5:00	Contributed Papers: Plant-Insect Ecosystems: Organic and Biocontrol - Chicot Meeting Room
3:45 PM - 5:00	Contributed Papers: Plant-Insect Ecosystems: Wheat and Sorghum - Grampas Meeting Room
5:15 PM - 6:00	<b>Shuttle Leaves for Clinton Library</b> - Front of Hotel
5:30 PM - 7:30	Reception at Clinton Library (light finger food) - Clinton Presidential Library
6:30 PM - 8:15	<b>Shuttle Returns to Peabody Hotel</b> - Front of Clinton Presidential Library

### TUESDAY, 6 MARCH

#### **CONTRIBUTED PAPERS:**

### PLANT-INSECT ECOSYSTEMS: SOYBEANS AND STINK BUGS

#### 8:00 - 10:00

White Oak Lecture Hall

**Moderators:** Jeffrey A. Davis and Fred Musser

8:00 AM - 71 Assessment of stink bug injury on soybean with a no-choice field protocol

Jessica L. Parker Louisiana State University Agricultural Center, Joshua H. Temple DuPont Crop Protection, B. Rogers **Leonard** Louisiana State University Agricultural Center.

8:12 AM - 72 Evaluating the efficacy of methoxyfenozide on Louisiana, Texas and the Mid-Southern Soybean Looper populations

Sebe Brown Louisiana State University AgCenter, Jeffrey A. Davis Louisiana State University AgCenter, B. R. Leonard Louisiana State University Agricultural Center, M.O. Way Texas AgriLife Research & Extension Center, Kelly V. Tindall University of Idaho, Clint Allen USDA - ARS, A. R. Richter Louisiana State University AgCenter.

8:24 AM - 73 Insect losses in southern soybeans Fred R. Musser Mississippi State University, Angus L. Catchot Mississippi State University, Scott D. Stewart University of Tennessee, Gus Lorenz University of Arkansas, D. Ames Herbert Virginia Polytechnic Institute and State University, **Dominic Reisig** North Carolina State University, Tim Reed Alabama CES, Jeff Davis Louisiana State University AgCenter, B. Rogers Leonard Louisiana State University Agricultural Center.

8:36 AM - 74 Looper species inhabiting soybean in the Mississippi Delta

Clint Allen USDA – ARS.

8:48 AM - 75 Efficacy of Lepidopteran-specific insecticides in Arkansas soybean **D. Scott Akin** *University of Arkansas, Division of Agriculture*,

Gus M. Lorenz University of Arkansas, Division of Agriculture, Don R. Cook Mississippi State University, J. Eric Howard University of Arkansas, Division of Agriculture.

9:00 AM - 76 Feeding behavior of three aphid species on thiamethoxam seed-treated soybean **Jeffrev A. Davis** Louisiana State University AgCenter.

Does long day photoperiod drive brown 9:12 AM - 77

stink bug (Euschictus corrue) reproduction? Michael D. Toev Canceled Tifton, John J. Herbert Georgia Soumern University, winguel F. Soria Federal University of Grande Dourados.

T U E S D A

9:24 AM - 78 Advances in understanding stink bug feeding mechanics and pathogen transmission Jesus Esquivel USDA, Agricultural Research Service, Enrique Medrano USDA, Agricultural Research Service, Lori Hinze USDA, Agricultural Research Service.

- 9:36 AM 79 Edge effects of stink bugs in corn, peanut, cotton and soybean fields adjacent to woodland Dawn M. Olson USDA ARS, John Ruberson University of Georgia, David Andow University of Minnesota.
- 9:48 AM 80 Multifunctional trap cropping system for managing stink bugs in Georgia Glynn Tillman *USDA-ARS*, Ashot Khrimian *USDA ARS*, Ted Cottrell *USDA-ARS*.

### **TUESDAY, 6 MARCH**

SPOTTED WING DROSOPHILA DROSOPHILA SUZUKII IN THE SOUTHEAST: SPREAD, STATUS, AND MANAGEMENT CHALLENGES

**8:00 – 10:00**Chicot Meeting Room

#### **Organizers and Moderators:**

Hannah J. Burrack and Alejandro Merchàn

- 8:00 AM 81 Status, biology, and management of *Drosophila suzukii* in the eastern US Hannah J. Burrack *North Carolina State University*.
- 8:20 AM 82 Invasive species biology and management on the ground: a county based perspective
  Nicole D. Sanchez North Carolina State University.
- 8:40 AM 83 High hemocyte load is associated with increased resistance against parasitoids in *Drosophila suzukii*, a relative of *D. melanogaster* Todd A. Schlenke *Emory University*, Balint Z Kacsoh *Emory University*.
- 9:00 AM 84 Spotted wing drosophila's 2011 impacts and significance in Georgia

  Dan L. Horton University of Georgia.
- 9:20 AM 85 Spotted Wing Drosophila (*Drosophila suzukii*) biology, ecology, and hosts in Florida

  James F. Price University of Florida.
- 9:40 AM 86 Measuring the preference and performance of Spotted Wing Drosophila (*Drosophila suzukii*) across small fruit crops

  Dylan Kraus North Carolina State University, Hannah J.

Dylan Kraus North Carolina State University, Hannah J. Burrack North Carolina State University.

### **TUESDAY, 6 MARCH**

#### ARMYWORM SYMPOSIUM

8:00 – 9:45

Harris Lecture Hall

#### **Organizers and Moderators:**

John Adamczyk and Gus Lorenz

8:00 AM - 87 Screening transgenic cotton lines used in drought stress for Beet Armyworm Spodoptera exigua (Hübner) and other cotton pests resistance

L Scott Armstrong USDA ARS Bondy Allon Oklahoma

**J. Scott Armstrong** USDA - ARS, **Randy Allen** Oklahoma State University and Samuel Roberts Noble Foundation, Ar, **John J. Adamczyk** USDA – ARS.

8:15 AM - 88 Fall armyworm migration in the United States

Rodney N. Nagoshi *USDA-ARS*, Robert Meagher *USDA-ARS*, Mirian Hay-Roe *USDA-ARS*.

8:30 AM - 89 Susceptibility of United States and Puerto Rico field populations of fall armyworm to *Bacillus thuringiensis* corn containing single and pyramided transgenes

Fangneng Huang Louisiana State University Agricultural Center, Ying Niu Louisiana State University Agricultural Center, Fei Yang Louisiana State University Agricultural Center, Jawwad A. Qureshi University of Florida, B.R. Leonard Louisiana State University Agricultural Center, Robert Meagher USDA, ARS, CMAVE, Graham Head Monsanto Company, R. Levy Louisiana State University Agricultural Center, S.D. Wangila Louisiana State University Agricultural Center, L. Zhang Louisiana State University Agricultural Center.

- 8:45 AM 90 Activity of new *Bt* trait combinations for management of lepidopteran pests of corn G. David Buntin *University of Georgia*, R. Dewey Lee *University of Georgia*.
- 9:00 AM 91 Insect pathogenic fungi as inundative biocontrol agents of Lepidopterans, emphasizing fall armyworm, Spodoptera frugiperda, in corn Sergio R. Sanchez-Pena Universidad Autonoma Agraria Antonio Narro, Oscar E. Rosales-Escobar Universidad Autonoma Agraria Antonio Narro, Paulina Vega-Aquino SAGARPA, Patricia Espericueta-Medina Universidad Autonoma Agraria Antonio Narro.
- 9:15 AM 92 Efficacy of soybean seed treatments for fall armyworm control and impact on natural enemies
  John J. Adamczyk USDA ARS, Gus Lorenz University of Arkansas, Robert Pfannenstiel USDA-ARS, Andy Scott RioFarms, Inc.

9:30 AM - 93 Efficacy of TwinLink  $^{\text{TM}}$  traits against Beet and Fall Armyworm larvae

John J. Adamczyk USDA - ARS, Jonathan Holloway Bayer Crop Science, Linda Trolinder Bayer Crop Science, Sasha M. Greenberg USDA - ARS, J. Scott Armstrong USDA – ARS.

9:45 AM – 10:15 Break - Conference Center Level 2

### **TUESDAY, 6 MARCH**

#### FUNCTIONAL GENOMICS OF TICK-PATHOGEN INTERFACE

8:00 - 12:00

**Grampas Meeting Room** 

#### **Organizers and Moderators:**

Shahid Karim and Albert Mulenga

8:00 AM - 94 Functional genomics of the gulf coast tick sialome

**Shahid Karim** *University of Southern Mississippi*.

8:25 AM - 95 The infection-regulated transcriptome of Ixodid ticks

Deborah C. Jaworski Oklahoma State University.

8:50 AM - 96 Neurophysiological mechanisms of blood feeding and salivation in ticks Andrew Y. Li *USDA – ARS*.

9:15 AM - 97 Biochemical characterization of tick saliva serine protease inhibitors

**Lindsay Porter** *Texas A & M University*.

9:30 AM - 98 Peering through the tick bite: discovery of 12-48h tick saliva proteins

**Albert Mulenga** *Texas A & M University*.

9:55 AM – 10:15 Break - Conference Center Level 2

10:15 AM - 99 Tick glutaminyl cyclase is essential for neuropeptide/hormone processing

Steven W. Adamson University of Southern Mississippi.

10:40 AM - 100 Contribution of the RpoN/RpoS regulon to the enzootic cycle of the Lyme disease spirochete, *Borrelia burgdorferi* 

Jon Blevins University of Arkansas for Medical Sciences.

11:05 AM - 101 Variability of glycerol-3-phosphate dehydrogenase function as a marker for climatic adaptation of *Ixodes ricinus* in Europe

**Zeljko Radulovic** *Texas A & M University*.

11:30 AM - 102 Biological characterization of tick feeding stimuli responsive acidic chitinase **Tae Kim** *Texas A & M University*.

11:45 AM - 12:00 PM Discussion

### TUESDAY, 6 MARCH

#### **CONTRIBUTED PAPERS:**

PHYSIOLOGY, BIOCHEMISTRY, AND TOXICOLOGY SECTION; AND SYSTEMATICS, EVOLUTION, AND BIODIVERSITY SECTION

10:15 - 11:51

**Chicot Meeting Room** 

#### **Moderators:**

Jorigtoo-Zhaorigetu Chen and Daniel Totten

10:15 AM - 103 Impact of herbivory on fatty acid profiles in tomato

Zhaorigetu Chen University of Arkansas, Fiona L. Goggin University of Arkansas.

10:27 AM - 104 Intravital video imaging for the study of hemolymph circulation in mosquitoes

Julian F. Hillyer Vanderbilt University.

10:39 AM - 105 Expression of a tet-responsive transcriptional activator in transgenic Aedes aegypti **Daniel C. Totten** *University of Arkansas for Medical Sciences*, Byron Johnson University of Arkansas for Medical Sciences, Helen Beneš University of Arkansas for Medical Sciences.

10:51 AM - 106 Insects and isotopes: how can we use stable isotopes to determine feeding and movement behavior of Lasioderma serricorne?

Rizana M. Mahroof South Carolina State University.

11:03 AM - 107 Concurrent use of four seed-feeding agents for knapweed: synchrony or conflict?

Rachel A. Lange Texas AgriLife Research, G. Jerry Michels Texas AgriLife Research, Erin E. Parks Texas AgriLife Research.

11:15 AM - 108 Searching for harvester ants (Pogonomyrmex) in Arkansas

**Lynne Thompson** *University of Arkansas--Monticello*, **Dave General** *University of Arkansas—Monticello*.

11:27 AM - 109 Phylogenetic analysis of the Alfalfa Weevil complex (Coleoptera: Curculionidae) in North America

T U E S D A

Jorge A. Achata New Mexico State University, Scott Bundy New Mexico State University, Naomi Oesterle New Mexico State University, Stephen Hanson New Mexico State University.

11:39 AM - 110 Impact of BP's Macondo oil disaster on salt marsh insect diversity and abundance in the northern Gulf of Mexico

Linda M. Hooper-Bui Louisiana State University, Rachel M. Strecker Louisiana State University, O. Osisioma Louisiana State University, X. Chen Louisiana State University, B. Adams Louisiana State University.

### **TUESDAY, 6 MARCH**

#### **CONTRIBUTED PAPERS:**

## PLANT-INSECT ECOSYSTEMS: COTTON AND CORN

10:15 – 11:51

White Oak Lecture Hall

Moderators: Randy Luttrell and Jerry Michels

10:15 AM - 111 Comparative performance of TwinLink and BollGard II on the control of caterpillar pests across the Cotton Belt in 2011

John F. Smith Bayer CropScience, Walt Mullins Bayer CropScience, Mark Rinehardt Bayer CropScience, Gus Lorenz University of Arkansas, Angus Catchot Mississippi State University, Jeremy Greene Clemson University, B. Roger Leonard Louisiana State University Agricultural Center, Scott Stewart University of Tennessee, Gary Henniger Bayer CropScience, Scott Baker Bayer CropScience, David Hughes Bayer CropScience, Jeffrey Gore Mississippi State University, Lane Crooks Carolina Ag-Research Service, Inc, Mike McCarty Carolina Ag-Research Service, Inc.

10:27 AM - 112 Bioassays of Tarnished Plant Bug (*Lygus lineolaris*) exposed to *Beauveria bassiana* treated cotton in the Mississippi Delta

Randall G. Luttrell *USDA ARS*, Maribel Portilla *USDA - ARS*, Gordon Snodgrass *USDA - ARS*, Ryan Jackson *USDA-ARS-SIMRU*.

10:39 AM - 113 Impact of spray adjuvants on insecticide performance in cotton

Donald Cook Mississippi State University, Jeffrey Gore Mississippi State University, Scott D. Stewart University of Tennessee, Gus Lorenz University of Arkansas, Angus L. Catchot Mississippi State University, B. Roger Leonard Louisiana State University Agricultural Center, D. Scott Akin University of Arkansas, Division of Agriculture - Cooperative Extension Service, Glenn Studebaker University of Arkansas, Fred R. Musser Mississippi State University.

10:51 AM - 114 Transform insecticide: a new tool for managing cotton pests in the southern U.S

Melissa Willrich Siebert Dow AgroSciences, Larry C. Walton Dow AgroSciences, Ralph B. Lassiter Dow AgroSciences, Robert A. Haygood Dow AgroSciences, Andrew T. Ellis Dow AgroSciences, James D. Thomas Dow AgroSciences.

# 11:03 AM - 115 Transform field performance on cotton pests in Texas

Jackie A. Lee Dow AgroSciences, Vernon B. Langston Dow AgroSciences, David L. Kerns Texas AgriLife Extension, Roy Parker Texas AgriLife Extension, Brant Baugh Texas AgriLife Extension.

11:15 AM - 116 Performance of Optimum® Intrasect™ and Agrisure Viptera™ technologies in Pioneer Corn Hybrids against lepidopteran pests in the southern U.S.

Jarrod T. Hardke Pioneer Hi-Bred International, Inc, Robert L. Rorie Pioneer Hi-Bred International, Inc, Murdick J. McLeod Pioneer Hi-Bred International, Inc, Steven R. Paszkiewicz Pioneer Hi-Bred International, Inc.

- 11:27 AM 117 Research and extension: different approach, same objective monitoring lepidopterous pests in corn
- **G. J. Michels** *Texas AgriLife Research*, **E. D. Bynum** *Texas AgriLife Extension Service*, **J. B. Bible** *Texas AgriLife Research*.

11:39 AM - 118 Stacked-trait Bt-corn in managing earfeeding Lepidoptera and aflatoxin expressed by mycotoxigenic fungi

Michael J. Brewer Texas AgriLife Research and Extension Center, Gary N. Odvody Texas AgriLife Research and Extension Center.

#### TUESDAY, 6 MARCH

### TURF AND ORNAMENTALS SYMPOSIUM

10:15 - 12:00

Harris Lecture Hall

#### **Organizers and Moderators:**

Cheri Abraham and Carlos Bogram

10:15 AM - 119 Japanese maple scale: a difficult to control nursery pest

Frank A. Hale University of Tennessee, Amy F. Fulcher University of Tennessee, Mark Halcomb University of Tennessee.

10:30 AM - 120 Host plant resistance against leafminers (Liriomyza trifolii) in Gerbera Daisies
Cheri M. Abraham University of Georgia, S. Kristine
Braman University of Georgia, Ron D. Oetting University of Georgia.

10:45 AM - 121 Diversity and seasonal activity of clearwing moths in South Carolina

Juang-Horng Chong Clemson University.

11:00 AM - 122 A new exotic pest for Florida, giant African land snail (*Achatina fulica*): a challenge for both regulatory and extension personnel

Amanda C. Hodges *University of Florida*.

11:15 AM - 123 Host plant volatiles associated with the strawberry rootworm, *Paria fragariae* Wilcox Chris Werle *USDA-ARS*, Blair Sampson *USDA*, John M. Bland *USDA-ARS*, *Southern Regional Research Center*.

11:30 AM - 124 Biocontrol of insect pests of native and nonnative urban landscape plants: a residential scale experiment Matthew H. Greenstone Invasive Insect Biocontrol and Behavior Laboratory.

11:45 AM - 125 Using GIS to develop pest management tools for wood- boring beetles in southern nurseries Carlos E. Bográn Texas A&M University, Eric W. Leigh Texas A&M University.

## **TUESDAY, 6 MARCH**

JOINT
SOUTHEASTERN BRANCH/
SOUTHWESTERN BRANCH
AWARDS CEREMONY/LUNCHEON
AND PHOTO SALON

12:15 – 1:30 PM Salons B and C Peabody Ballroom

## **TUESDAY, 6 MARCH**

#### **CONTRIBUTED PAPERS:**

## MEDICAL, URBAN AND VETERINARY ENTOMOLOGY

2:00 - 3:30

**Grampas Meeting Room** 

#### **Moderators:**

David H. Kattes and Michael E. Merchant

2:00 PM - 126 Individual and paired releases of house fly pupal parasitoids in dairy calf facilities

Phillip E. Kaufman University of Florida, Colleen Strong Cornell University, J. Keith Waldron NYS IPM Program, Donald A. Rutz Cornell University.

2:12 PM - 127 The Southwest Regional Dairy Center David H. Kattes Tarleton State University, Sonja L. Swiger Texas AgriLife Extension, Barry D. Lambert Texas AgriLife Research.

2:24 PM - 128 Biorational suppression of poultry pests Nancy C. Hinkle *University of Georgia*.

2:36 PM - 129 Efficacy of Phantom® SC termiticideinsecticide, Phantom SC & Synergized Pyrethrins and Suspend® SC on lab reared and field collected bed bug (Cimex lectularius) populations Robert Davis BASF Corporation.

2:48 PM - 130 Subterranean termites (Isoptera: Rhinotermitidae) feed on baits with previous feeding by different colonies or species

Joe E. Eger Dow AgroSciences, Joe J. DeMark Dow AgroSciences, Ronda Hamm Dow AgroSciences, Michelle S. Smith Dow AgroSciences, Barry P. Yokum City of New Orleans Mosquito and Termite Control Board.

3:00 PM - 131 Integrated pest management of Caribbean Crazy Ant (*Nylanderia pubens*) in Florida Dawn Calibeo *University of Florida*, Faith Oi *University of Florida*.

3:12 PM - 132 Imported fire ant eXtension: the challenges of engaging the public while providing quality research based information

**Kathy Flanders** *Auburn University*, **Bastiaan Drees** *Texas A&M University*.

#### T E S D A

## **TUESDAY, 6 MARCH**

# BIOLOGICAL CONTROL SUCCESS STORIES

2:00 - 3:30

**Chicot Meeting Room** 

#### **Organizer and Moderator:**

Carmen M. Greenwood

2:00 PM - 133 Conservation biological control of Azalea Lace Bug (Stephanitis pyroides)
S. Kristine Braman University of Georgia

2:20 PM - 134 Leptoypha hospita (Hemiptera: Tingidae): a potential biocontrol agent of Chinese privet Yanzhuo Zhang University of Georgia.

2:40 PM - 135 Biological control: criteria that constitute success

Loke T. Kok Virginia Polytechnic Institute and State University, S. Kris Braman University of Georgia, G. Jerry Michels Texas AgriLife Research, Yanzhuo Zhang University of Georgia.

3:00 PM - 136 Saltcedar biological control in the Texas Panhandle: working toward success G. J. Michels Texas AgriLife Research.

3:20 PM - Discussion

## **TUESDAY, 6 MARCH**

## ADVANCING IPM IN PECAN SYSTEMS

2:00-5:00

Harris Lecture Hall

#### **Organizers:**

David Shapiro-Ilan and Ted Cottrell **Moderator:** Phillip G. Mulder

2:00 PM - 137 Resistance to imidacloprid in pecan aphids Bill Ree *Texas A&M University*.

2:25 PM - 138 Seasonal susceptibility of pecan cultivars to the Black Pecan Aphid

Ted Cottrell USDA - ARS, Patrick, J. Conner University of Georgia, Tommy Thompson USDA-ARS, Lj Grauke USDA-ARS.

2:45 PM - 139 Control of foliage-feeding aphids and mites on pecan

James D. Dutcher University of Georgia, Haider Karar Entomological Research Sub-Station, Pakistan Mahr Ghulam Abbas Pest Warning & Quality Control of Pesticides. Pakistan.

3:05 PM - 140 Microbial control agents for suppression of Pecan Weevil

**David Shapiro-Ilan** *USDA - ARS*, **Ted Cottrell** *USDA - ARS*, **Wayne A. Gardner** *University of Georgia*.

3:25 PM - 3:40 Break - Conference Center Level 2

3:40 PM - 141 The PNC Forecast Model: using a biofix and temperature to improve ability to forecast PNC activity Mark Muegge Texas A&M University, Allen E. Knutson Texas A&M University.

4:00 PM - 142 Habitat manipulation strategies for pecan arthropod pests

Russell Mizell University of Florida.

4:20 PM - 143 Pecan ipmPIPE: an interactive communication resource for all pecan stakeholders Marvin K. Harris Texas A&M University, Alejandro A. Calixto Texas A&M University.

4:40 PM - 5:00 Discussion

### TUESDAY, 6 MARCH

#### **VEGETABLE SYMPOSIUM**

2:00-4:45

White Oak Lecture Hall

#### **Organizers and Moderators:**

Hugh A. Smith and Alvin M. Simmons

2:00 PM - 144 Managing *Bemisia tabaci* and Tomato Yellow Leaf Curl virus with new insecticides Hugh A. Smith *University of Florida*.

2:15 PM - 145 Torac: a new tool for managing thrips on onions

Scott W. Ludwig Nichino America, Inc, Pedro Hernandez Nichino America, Inc, Botond Balogh Nichino America, Inc, Allison Walston Nichino America, Inc, James C. Adams Nichino America, Inc.

2:30 PM - 146 Extra whitefly attraction to plants with vellow flowers

Alvin M. Simmons USDA, ARS, U.S. Vegetable Laboratory, Rizana M. Mahroof South Carolina State University.

2:45 PM - 147 Effect of thrips on cowpea in Arkansas Paul J. McLeod University of Arkansas, Tahir Rashid Alcorn State University.

3:00 PM - 148 Within-plant distribution of *Bemisia tabaci* (Hemiptera: Aleyrodidae) in watermelon in north central Florida

Felix Cervantes University of Florida, Susan Webb University of Florida.

3:15 PM - 149 Current status and management of melon thrips, *Thrips palmi* Kany (Thysanoptera: Thripidae) in vegetable crops

Dakshina Seal University of Florida.

3:30 PM - 3:45 Break - Conference Center Level 2

3:45 PM - 150 Exirel<sup>TM</sup> and Verimark<sup>TM</sup> novel insecticides from DuPont<sup>TM</sup> for crop protection on vegetables in the Southeast

James E. Taylor DuPont Crop Protection, Stanley S. Royal DuPont Crop Protection, Glenn G. Hammes DuPont Crop Protection, Robert W. Williams DuPont Crop Protection, Hector E. Portillo DuPont Crop Protection, I. Billy Annan DuPont Crop Protection, Juan M. Alvarez DuPont Crop Protection.

4:00 PM - 151 Performance of Bt sweet corn against caterpillar pests in south Georgia
Alton Sparks University of Georgia.

4:15 PM - 152 Pollination efficacy of the eastern cucurbit bee (*Peponapis pruinosa*)
Blair Sampson *USDA*, James H. Cane *USDA* – *ARS*.

4:30 PM - 153 Insecticide rotations for managing diamondback moth resistance in cabbage and collards David G. Riley *University of Georgia*.

## **TUESDAY, 6 MARCH**

#### **CONTRIBUTED PAPERS:**

# PLANT-INSECT ECOSYSTEMS: ORGANIC AND BIOCONTROL

3:45 – 5:00 Chicot Meeting Room

**Moderator:** Raul T. Villanueva

3:45 PM - 154 Insect problems growing organic citrus, onions, watermelon and grapes in the Rio Grande Valley Raul T. Villanueva Texas A&M University - Texas AgriLIFE Extension, Gabriela Esparza-Diaz Texas A&M University - Texas AgriLIFE Extension, Luis Ribera Texas A&M University - Texas AgriLIFE Extension.

3:57 PM - 155 Endemic pollinators of a small organic farm in the Rio Grande Valley

Anthony Martinez South Texas College, Raul T. Villanueva Texas A&M University - Texas AgriLIFE Extension, Gabriela Esparza-Diaz Texas A&M University - Texas AgriLIFE Extension.

4:09 PM - 156 Can spinosad be used to manage Texas leafcutter ants in organic Black Spanish Grapes?

David Garza South Texas College, Gabriela Esparza-Diaz Texas A&M University - Texas AgriLIFE Extension, Raul T.

Villanueva Texas A&M University - Texas AgriLIFE Extension.

4:21 PM - 157 Biological control of giant salvinia: overwintering of *Cyrtobagous salviniae* in northeastern Texas Abhishek Mukherjee *Texas A&M University*, Allen E. Knutson *Texas A&M University*, Kevin Heinz *Texas A&M University*.

4:33 PM - 158 Introduction history of Brazilian peppertree (Schinus terebinthifolius) and prospects for its biological control in Florida

William A. Overholt Indian River Research and Education Center, Veronica Manrique University of Florida, Dean A. Williams Texas Christian University, Abhishek Mukherjee Texas A&M University, James Cuda University of Florida, Greg Wheeler USDA ARS IPRL.

4:45 PM - 159 Synergistic interaction of Beauveria bassiana and Bacillus thuringiensis toxin for the control of Helicoverpa armigera Hübner (Lepidoptera: Noctuidae) populations obtained from different locations Waqas Wakil University of Agriculture, M. Usman Ghazanfar University of Sargodha, Muhammad Ashfaq University of Agriculture, Mirza A. Qayyum University of Agriculture,

## **TUESDAY, 6 MARCH**

#### **CONTRIBUTED PAPERS:**

# PLANT-INSECT ECOSYSTEMS: WHEAT AND SORGHUM

3:45-5:00

**Grampas Meeting Room** 

**Moderators:** Scott Stewart and James Vogt

3:45 PM - 160 Foraging behavior of convergent lady beetles (*Hippodamia convergens*) for cereal aphids in wheat Norman Elliott *USDA-ARS*.

3:57 PM - 161 The value of insecticide seed treatments and foliar insecticide applications on wheat in Tennessee Scott Stewart University of Tennessee, Angus Catchot Mississippi State University, Sandy Steckel University of Tennessee.

T U E S D A Y

4:09 PM - 162 Insect control in Mid-South grain sorghum Angus Catchot Mississippi State University, D. Cook Mississippi State University.

4:21 PM - 163 Changes in row crop IPM infrastructure from 1981 to 2011 - case study: Lower Rio Grande Valley of Texas

Charles T. Allen Texas AgriLife Extension.

4:33 PM - 164 Safety measures for protecting stored grain Edmond L. Bonjour Oklahoma State University, Carol L. Jones Oklahoma State University, Randy Beeby Oklahoma State University.

**4:45 PM - 165** Navy Entomology and Programs Jeffrey Stancil Navy Entomology Center of Excellence.

## **TUESDAY, 6 MARCH**

#### **POSTER PRESENTATIONS:**

8:00 AM to 5:00 PM

Riverview Meeting Room

Presenters at Posters from 2:30 to 3:30 PM

#### Physiology, Biochemistry, and Toxicology

DSP46 Effect of Ca<sup>2+</sup> formulations on bacterial diseases transmitted via vectors *Diaphorina citri* Kuwayama and *Bactericera cockerelli* 

Carolina De La Garza Texas A&M University - Kingsville Citrus Center.

DSP47 Comparative study of acephate resistance in the Tarnished Plant Bug: dose response, enzyme activities, sequences, and gene regulation

Yu Cheng Zhu USDA - ARS, Randy Luttrell USDA - ARS.

DSP48 Expressional characterization of cytochrome P450 genes in the whole genome of the red imported fire ant, *Solenopsis invicta*.

Feng Liu Auburn University, Ting Li Auburn University, Nannan Liu Auburn University.

DSP49 Modification of termite cuticular hydrocarbon profiles increases cuticular permeability and water loss Jack W. Dillwith Oklahoma State University, Robin Madden Oklahoma State University, Ngan Nguyen-Rawlings Oklahoma State University, Charles Konemann Oklahoma State University, Brad Kard Oklahoma State University.

DSP50 Temperature stress, anti-oxidative enzyme activity and virus acquisition in *Bemisia tabaci* (Hemiptera: Aleyrodidae)

Adeel Faruki University of St. Thomas, Duc Lam University of St. Thomas, Cindy McKenzie USDA-ARS, Robert Shatters USDA - ARS, Rosemarie C. Rosell University of St. Thomas.

DSP51 Effects of host plants and rearing temperature on fatty acid metabolism in the potato aphid, *Macrosiphum euphorbiae* 

Zhaorigetu Chen University of Arkansas, Robin Madden Oklahoma State University, Jack Dillwith Oklahoma State University, Fiona L. Goggin University of Arkansas.

DSP52 Directions for managing insecticide resistance in Diaphorina citri through RNAi by silencing CYP4 genes Siddharth Tiwari University of Florida, Siddarame Gowda University of Florida, Subhash Hajeri University of Florida, Lukasz Stelinski Entomology and Nematology, University of Florida.

#### Medical, Urban and Veterinary Entomology

DSP53 Current status of *Pseudacteon* spp. phorid flies in Arkansas

Kelly M. Loftin University of Arkansas, John D. Hopkins University of Arkansas, Ricky F. Corder University of Arkansas.

DSP54 A modified bottle bioassay for evaluation of insecticide toxicity against *Phlebotomus* sand flies Andrew Y. Li *USDA ARS Knipling-Bushland U.S. Livestock Insects Research Laboratory*.

DSP55 Initiating biologically-based control research of floodwater mosquito eggs with entomopathogenic fungi and natural products

Cesar D. Solorzano Torres USDA-ARS, Xixuan Jin USDA-ARS, Jian Chen USDA-ARS, Daniel L. Kline Mosquito and Fly Research Unit, Walker Jones USDA-ARS.

DSP56 Geraniol as a horn fly repellent Ricky F. Corder *University of Arkansas*, Kelly M. Loftin University of Arkansas.

DSP57 Blow fly deposition of Salmonella enterica on different substrates

**A.** Wayadande Oklahoma State University, Sarah Lamoreax Oklahoma State University.

DSP58 A history of the French Quarter Formosan Subterranean Termite Program in New Orleans, Louisiana Alan L. Morgan Louisiana State University AgCenter, Dennis R. Ring Louisiana State University AgCenter, Alan Lax USDA - ARS, Frank S. Guillot USDA – ARS.

DSP59 Tennessee's school IPM race to the top Karen M. Vail *University of Tennessee*, Pat A. Barnwell University of Tennessee. T E S D A

DSP60 Development of a new treatment method for control of Formosan subterranean termites infesting levees in New Orleans

**Gregg Henderson** Louisiana State University.

DSP61 The emergence of the Entomophagy Food Industry in the U.S.

Marianne Shockley Cruz University of Georgia, Harman Johar University of Georgia.

DSP62 A revised look at horn fly, *Haematobia irritans*, insecticide resistance in Florida

Chris J. Holderman University of Florida, Phillip E. Kaufman University of Florida, Fan Tong University of Florida, Jeffrey R. Bloomquist University of Florida.

#### Systematics, Evolution, and Biodiversity

DSP63 Observations of flight and response to microhabitat drying of *Heterosternuta sulphuria* and *H. phoebeae* (Coleoptera: Dytiscidae), two endemic species of concern in Ozark streams

**Toshiki Hayashi** *University of Arkansas*, **Scott Longing** *University of Arkansas*, **Dan Magoulick** *University of Arkansas*.

DSP64 Biodiversity and community structure of Arthropods associated with Salvinia minima Baker Katherine A. Parys Louisiana State University AgCenter, Seth J. Johnson Louisiana State University AgCenter.

#### **Plant-Insect Ecosystems**

DSP65 Field evaluation of attractants for detection of *Diaphorina citri* Kuwayama (Hemiptera: Psyllidae) in citrus J. Isabel López-Arroyo *INIFAP*, Marco A. Reyes-Rosas *INIFAP*, Jesús Loera-Gallardo *INIFAP*, Joseph Patt *USDA – ARS*.

DSP66 Impact of the entomopathogenic fungus *Beauveria* bassiana against Lygus lineolaris and non-target insects
Maribel Portilla USDA - ARS, Gordon Snodgrass USDA - ARS, Randy Luttrell USDA - ARS.

DSP67 Predation on the ficus whitefly, Singhiella simplex, by the coccinellid beetle Delphastus catalinae
Jesusa C. Legaspi USDA-ARS-CMAVE-FAMU-CBC, Neil
Miller USDA-ARS-CMAVE-FAMU-CBC, Catharine M.
Mannion University of Florida, Divina Amalin Cocoa
Foundation of the Philippines, Inc.

DSP68 Management strategies for 'Q' and 'B' Biotype whitefly, *Bemisia*.

Monica L. Townsend University of Georgia, Ron Oetting, University of Georgia.

DSP69 Tolfenpyrad: a new broad spectrum insecticide from Nichino America, Inc

Scott W. Ludwig Nichino America, Inc, Botond Balogh Nichino America, Inc, Pedro Hernandez Nichino America, Inc, Allison Walston Nichino America Inc, James Adams Nichino America Inc, Kenneth Chisholm Nichino America Inc. DSP70 Ear feeding damage by corn earworm (*Helicoverpa zea*) in Bt corn

Glenn Studebaker University of Arkansas, D. Scott Akin University of Arkansas, Division of Agriculture - Cooperative Extension Service.

DSP71 Correlation of resistance to maize weevil, *Sitophilus zeamais*, and starch arrangement in sectioned kernels of sorghum

Bonnie B. Pendleton West Texas A&M University, Michael W. Pendleton Texas A&M University, E. Ann Ellis Texas A&M University, Gary C. Peterson Texas A&M University, Fernando M. Chitio IIAM, Suhas Vyavhare Texas A&M University.

# DSP72 Chemical control strategies evaluated against tarnished plant bugs in Louisiana

K. Emfinger Louisiana State University AgCenter, J. Gordy Louisiana State University AgCenter, J. Chapman Louisiana State University AgCenter, S. Williams Louisiana State University AgCenter, B. R. Leonard Louisiana State University AgCenter.

DSP73 Actigard induced resistance to soybean looper (Chrysodeixis includens) in soybean Arthur R. Richter Louisiana State University AgCenter,

**Arthur R. Richter** *Louisiana State University AgCenter*, **Jeffrey A. Davis** *Louisiana State University AgCenter*, **Michael J. Stout** *Louisiana State University AgCenter*.

DSP74 Trolling for red imported fire ant (Solenopsis invicta) control efficacy data in the Lone Star State's recordsetting hottest, driest year in U. S. history!

Paul R. Nester Texas AgriLife Extension Service, Bastiaan

Drees Texas A&M University, Alejandro A. Calixto Texas

DSP75 Efficacy of Nigeria-derived diatomaceous earth, botanical insecticides, and riverbed sand against major postharvest insects on wheat

**Grace O. Otitodun** Nigerian Stored Products Research Institute, Headquarters, **George P. Opit** Oklahoma State University, **Ego U. Okonkwo** Nigerian Stored Products Research Institute, Headquarters.

A&M University.

DSP76 Evaluation of acaricides against Two-spotted spider mites in Louisiana cotton

**Shelby Williams** *Louisiana State University AgCenter*.

DSP77 Detection of a shift in Russian wheat aphid (Hemiptera: Aphididae) biotype composition in the USA Gary J. Puterka USDA - ARS, Kris Giles Oklahoma State University, Mike Brown USDA - ARS, E. D. Bynum Texas AgriLife Extension Service, Jerry Michels Texas AgriLife Extension Service, Frank B. Peairs Colorado State University, Robert Hammon Colorado State University, Scott Nicholson USDA - ARS.

DSP78 They're here! Incidence and distribution of Emerald Ash Borer in Tennessee

**Steve D. Powell** *Tennessee Department of Agriculture*, **Kenneth J. Copley** *USDA APHIS*, **Jerome F. Grant** *University of Tennessee*.

I E S I A

DSP79 On the move? Novel collections of Sasajiscymnus tsugae in the Great Smoky Mountains National Park Gregory J. Wiggins University of Tennessee, Jerome F. Grant University of Tennessee, Rusty Rhea USDA - Forest Service, Abdul Hakeem University of Tennessee, Renee Follum University of Tennessee, Paris L. Lambdin University of Tennessee.

DSP80 Proteomic analysis of secreted saliva from Russian Wheat Aphid (*Diuraphis noxia* Kurd.) biotypes that differ in virulence to wheat

Scott Nicholson USDA - ARS, Gary J. Puterka USDA - ARS.

DSP81 Hard nut to crack: distribution and symptoms of Thousand Cankers Disease, vectored by Walnut Twig Beetle, on Black Walnut in Tennessee

Jerome F. Grant University of Tennessee, Gregory J. Wiggins University of Tennessee, Mark T. Windham University of Tennessee, Paris L. Lambdin University of Tennessee, Walker Gray Haun Tennessee Department of Agriculture.

DSP82 Effects of microbial insecticides for management of cotton pests

Sasha M. Greenberg USDA - ARS, J. Scott Armstrong USDA - ARS, Jaime J. Alejandro USDA - ARS.

DSP83 Distribution of *Bemisia tabaci* (Hemiptera: Aleyrodidae) biotypes in North America: investigating the Q invasion

Cindy L. McKenzie USDA - ARS, James A. Bethke University of California, Frank J. Byrne University of California, Joe Chamberlin Valent USA Corp, Timothy J. Dennehy Bayer CropScience, Aaron Dickey USDA - ARS, Daniel Gilrein Long Island Horticultural Research and Extension Center, Paula M. Hall University of Florida, Scott W. Ludwig Nichino America, Inc, Ron D. Oetting University of Georgia, Lance S. Osborne University of Florida, Lin Schmale Society of American Florists, Robert Shatters USDA – ARS.

DSP84 Effectiveness of neonicotinoid insecticides on the Green peach aphid (*Myzus persicae*): chemical poisoning or antifeedant effect?

H. Alejandro Merchán North Carolina State University, Hannah J. Burrack North Carolina State University.

DSP85 Managing Asian Citrus Psyllid (*Diaphorina citri*) with Tolfenpyrad 15SC insecticide

Botond Balogh Nichino America, Inc, Scott W. Ludwig Nichino America, Inc, Pedro Hernandez Nichino America, Inc, Allison Walston Nichino America, Inc, James Adams Nichino America, Inc.

DSP86 Effect of foliar ascorbic acid content on plant defenses against the Beet Armyworm (Spodoptera exigua) Lauren Wood University of Arkansas, Fiona Goggin University of Arkansas, Carlos Avila University of Arkansas.

**DSP87** Soil quality upregulation of host plant resistance Yasmin J. Cardoza North Carolina State University.

DSP88 Field application of entomopathogenic fungi against the Asian citrus psyllid, *Diaphorina citri*, in lime trees in Veracruz, Mexico

Rebeca Casique-Valdes Universidad Autonoma Agraria Antonio Narro, Julio N. Ek-Maas Universidad Autonoma Agraria Antonio Narro, Braulio M. Sanchez-Lara Universidad Autonoma Agraria Antonio Narro, José I. Lopez-Arroyo Campo Experimental General Terán, INIFAP, Sergio R. Sanchez-Peña Universidad Autonoma Agraria Antonio Narro.

## DSP89 Cowpea curculio monitoring and control in southern peas

**David G. Riley** *University of Georgia*.

DSP90 Influence of climate change on insect-plant interactions: implications for biological control in Florida Veronica Manrique University of Florida, Rodrigo Diaz University of Florida, William A. Overholt Indian River Research and Education Center.

# DSP91 Testing a climate-matching model for establishment of two species of leaf beetle for biological control of Saltcedar in North Texas

Allen E. Knutson Texas A&M University, C. Jack DeLoach Agricultural Research Service (retired), James Tracy Texas A&M University.

# DSP92 Integration of social media and blogging into extension programs

Natalie A. Hummel LSU AgCenter, Anna Meszaros LSU AgCenter, Debra T. Davis LSU AgCenter, Krisanna L. Machtmes LSU AgCenter.

DSP93 Evaluation of automatic applications of foliar insecticides for thrips across the Upland Cotton Belt -- 2011 **D. Scott Akin** University of Arkansas, Division of Agriculture -Cooperative Extension Service, Gus Lorenz University of Arkansas, Glenn Studebaker University of Arkansas, Scott D. Stewart University of Tennessee, Donald Cook Mississippi State University, Jeff Gore Mississippi State University, Angus Catchot Mississippi State University, B. Rogers Leonard Louisiana State University AgCenter, Steve Micinski Louisiana State University Agricultural Center, Kelly V. Tindall formerly University of Missouri, Ames Herbert Virginia Polytechnic Institute and State University, David L. Kerns Texas Agricultural Experiment Station, Ryan Jackson USDA - ARS, Michael D. Toews University of Georgia, Phillip M. Roberts University of Georgia, Jack Bacheler North Carolina State University, Dominic Reisig North Carolina State University, Jeremy Greene Clemson University, J. Eric Howard University of Arkansas, Division of Agriculture - Cooperative Extension Service.

# DSP94 Response of the ant community to forest restoration treatments at Warren Prairie Natural Area in Southeastern Arkansas

**Lynne Thompson** *University of Arkansas--Monticello*, **David General** *University of Arkansas--Monticello*.

# DSP95 New rice insects and diseases pages at www.lsuagcenter.com

Anna Meszaros LSU AgCenter, Donald Groth LSU AgCenter, Clayton Hollier LSU AgCenter, Hummel A. Natalie LSU

T U E S D A

# DSP96 The effect of tillage systems on abundance of Arthropods in cotton fields

Soolaf Abud Kathiar University of Arkansas at Little Rock, Janet Lanza University of Arkansas at Little Rock, Tina G. Teague Arkansas State University, Kamella Neeley Arkansas State University.

# DSP97 Leafhoppers as potential vectors of Blackberry Yellow Vein Disease

Kevin Durden University of Arkansas, Clinton E. Trammel
Unive Ioann
Unive Ioan

DSP98 The Mexican soybean pod weevil and Cowpea curculio, emerging pests in northeastern Mexico Jorge San-Juan Lara *COLPOS*, Antonio Teran-Vargas *INIFAP*, Raquel Alatorre-Rosas *COLPOS*.

# DSP99 Monitoring the principal pests of coffee, agave and soybean in Mexico

Paulina Vega-Aquino SAGARPA, Jorge San-Juan Lara COLPOS, Ausencio Azuara-Dominguez COLPOS, Antonio Teran-Vargas INIFAP.

## DSP100 Stink bug movement within and between North Carolina wheat and corn

**Dominic Reisig** North Carolina State University, **R. Michael Roe** North Carolina State University, **Anirudh Dhammi** North Carolina State University.

DSP101 Biological attributes of DuPont<sup>TM</sup> Cyazypyr<sup>TM</sup> (DPX-HGW86, Cyantraniliprole) new cross-spectrum insecticides: Benevia<sup>TM</sup>, Exirel<sup>TM</sup> and Verimark<sup>TM</sup> Hector E. Portillo DuPont Crop Protection, Juan M. Alvarez DuPont Crop Protection, Rachel A. Cameron DuPont Crop Protection, I. Billy Annan DuPont Crop Protection, Joseph P. Saienni DuPont Crop Protection, Christopher J. Williams DuPont Crop Protection, Paula C. Marçon DuPont Crop Protection, James D. Barry DuPont Crop Protection, Mary P. Koechert DuPont Crop Protection, Robert M. Leighty DuPont Crop Protection, Donald G. Clagg DuPont Crop Protection, Christopher E. Clark DuPont Crop Protection.

## DSP102 IPM internships: hands-on learning for college students

Charles T. Allen Texas AgriLife Extension.

# DSP103 Impact of foliage feeding by *Leptoypha hospita* on Chinese privet

Yanzhuo Zhang University of Georgia, James L. Hanula USDA Forest Service, S. Kristine Braman University of Georgia, Scott Horn USDA Forest Service, Jianghua Sun Chinese Academy of Sciences.

# DSP104 Removing external DNA decontamination from arthropod predators destined for molecular gut-content analysis

Matthew H. Greenstone Invasive Insect Biocontrol and Behavior Laboratory, Donald C Weber Invasive Insect Biocontrol and Behavior Laboratory, **Thomas A. Coudron**USDA - ARS, **Mark Payton** Oklahoma State University, **Jing S. Hu** Invasive Insect Biocontrol and Behavior Laboratory.

DSP105 Evaluating Bt corn hybrids in the Carolinas Francis P. F. Reay-Jones Clemson University, Dominic Reisig North Carolina State University, Jack Bacheler North Carolina State University, Pawel Wiatrak Clemson University.

# DSP106 Encounters between bees influence foraging behavior

Peter Cajamarca North Carolina State University, Emily White North Carolina State University, Edward Waked North Carolina State University, J. Vincent Toups North Carolina State University, Shelley R. Rogers North Carolina State University.

DSP107 Efficacy and residual activity of several common insecticides against *Megacopta cribraria* (Hemiptera: Plataspidae) in soybeans

Nicholas J. Seiter Clemson University, Jeremy K. Greene Clemson University, Francis P. F. Reay-Jones Clemson University, Phillip Roberts University of Georgia.

DSP108 Improved chemical control for the Mexican rice borer (Lepidoptera: Crambidae) in sugarcane: larval exposure, a novel scouting method, and efficacy of a single insecticide application

**B.E.** Wilson LSU Ag Center, A.T. Showler USDA-ARS, T.E. Reagan Louisiana State University Ag Center, J.M. Beuzelin Louisiana State University Ag Center.

#### T U E S D A

## **TUESDAY, 6 MARCH**

# RECEPTION AT CLINTON LIBRARY

5:30 - 7:30

Clinton Presidential Library

5:15 – 6:00 Shuttle Leaves for Clinton

**Library:** Front of Peabody Hotel

6:30 – 8:15 Shuttle Returns to Peabody

**Hotel:** Front of Clinton Library

Light Finger Food for Reception provided by:

Terminix International

Entry to Library provided by: The Little Rock Convention and Visitor's Bureau

# WEDNESDAY, 7 MARCH

7:00 AM - 9:30	<b>Audiovisual and Job Placement</b> - Petit Jean Meeting Room	
7:00 AM - 8:00	<b>Coffee and Tea</b> - Arkansas Ballroom, East Concourse	
8:00 AM - 10:00	<b>Registration</b> – Conference Center 3rd Floor Lobby	
8:00 AM - 9:30	Contributed Papers: Plant-Insect Ecosystems: Citrus and Sugarcane - Chicot Meeting Room	
8:00 AM - 10:00	Contributed Papers: Plant–Insect Ecosystems, Other Sections - White Oak Lecture Hall	
8:00 AM - 10:10	Updating the Status of the Bean Plataspid, Megacopta cribraria, in its Expanded Range in North America - Harris Lecture Hall	
10:00 AM - 10:30	<b>Break</b> - Conference Center Level 2	
10:30 AM - 11:30	Southeastern Branch Business Meeting - Harris Lecture Hall	
10:30 AM - 11:30	<b>Southwestern Branch Business Meeting -</b> White Oak Lecture Hall	

#### W E D N E S D A

## WEDNESDAY, 7 MARCH

#### **CONTRIBUTED PAPERS:**

## PLANT-INSECT ECOSYSTEMS: CITRUS AND SUGARCANE

8:00 - 9:12

**Chicot Meeting Room** 

#### **Moderators:**

Josh Temple and Julien M. Beuzelin

8:00 AM - 166 Citrus pest Lucid key: utilizing a web-based digital identification system for educating first detectors Sarahlynne Condeno Guerrero University of Florida, Jennifer Weeks University of Florida, Amanda C. Hodges University of Florida, Norman C. Leppla University of Florida.

8:12 AM - 167 Asian citrus psyllid (*Diaphorina citri*) tolerance to heat

**David G. Hall** *USDA - ARS*, **Matthew G. Hentz** *USDA - ARS*.

8:24 AM - 168 Exirel<sup>TM</sup> and Verimark<sup>TM</sup> novel insecticides for crop protection in Florida citrus

Joshua Temple DuPont Crop Protection, Stanley S. Royal DuPont Crop Protection, Rachel A. Cameron DuPont Crop Protection, Philip A. Stansly University of Florida, Barry C. Kostyk Southwest Florida Research and Education Center, Hector E. Portillo DuPont Crop Protection, I. Billy Annan DuPont Crop Protection, Juan M. Alvarez DuPont Crop Protection.

# 8:36 AM - 169 Impact of Sugarcane Beetles on Mid-South corn production

Angus Catchot Mississippi State University, Donald Cook Mississippi State University, Fred R. Musser Mississippi State University, Scott Stewart University of Tennessee, Kevin Lanford Mississippi State University.

## 8:48 AM - 170 Is energycane more resistant to stem borers than sugarcane?

J.M. Beuzelin LSU AgCenter, T.E. Reagan LSU AgCenter, W.H. White USDA-ARS, M.O. Way Texas AgriLife Research & Extension Center, B.E. Wilson LSU AgCenter, R.T. Richard USDA-ARS, M.T. VanWeelden LSU AgCenter, A. Meszaros LSU AgCenter.

# 9:00 AM - 171 New eriococcid scale pest of crape myrtle with insecticide control strategies

Michael E. Merchant Texas AgriLife Extension Service, James A. Reinert Texas AgriLife Research Center, Carlos Campos Texas AgriLife Research, Texas A&M System.

### WEDNESDAY, 7 MARCH

#### **CONTRIBUTED PAPERS:**

### **PLANT-INSECT ECOSYSTEMS:** VARIOUS

8:00 - 9:48

White Oak Lecture Hall

#### **Moderators:**

Rajagopalbabu Srinivasan and Jeff Gore

8:00 AM - 172 Emergence and seasonal abundance of native and introduced Laricobius species on eastern hemlock in the southern Appalachians

Gregory J. Wiggins University of Tennessee, Jerome F. Grant University of Tennessee, Abdul Hakeem University of Tennessee, Rusty Rhea USDA - Forest Service, Albert E. Mayfield USDA - Forest Service, Paris L. Lambdin University of Tennessee.

8:12 AM - 173 The Emerald ash borer (Agrilus planipennis Fairmaire) - a threat to the urban ash resource in Tennessee James T. Vogt USDA Forest Service, Southern Research Station, Christopher Oswalt USDA Forest Service, Southern Research Station.

8:24 AM - 174 Eradication of the Mexican fruit fly (Anastrepha ludens) Hugh E. Conway USDA-APHIS-PPQ-CPHST.

8:36 AM - 175 Seed treatments for rice insect control M.O. Way Texas AgriLife Research & Extension Center, R. A. Pearson Texas A&M AgriLife Research & Extension Center at Beaumont, M. N. Nunez Texas A&M AgriLife Research & Extension Center at Beaumont, S. Vyavhare Texas A&M AgriLife Research & Extension Center at Beaumont.

8:48 AM - 176 Susceptibility of Tomato spotted wilt virus (TSWV)-tolerant peanut genotypes to thrips and TSWV Rajagopalbabu Srinivasan University of Georgia, Anita Shrestha University of Georgia, Sivamani Sundaraj University of Georgia, Albert K. Culbreath University of Georgia, David **G. Rilev** *University of Georgia*.

9:00 AM - 177 Mother - offspring relations: prey quality and maternal size affect egg size of a specialized mite predator

Eric W. Riddick USDA - ARS, Zhixin Wu USDA – ARS.

9:12 AM - 178 Spider mite research in the Mid-South Jeffrey Gore Mississippi State University, Angus Catchot Mississippi State University, Donald Cook Mississippi State University, Fred Musser Mississippi State University, Ryan Jackson USDA, Scott D. Stewart University of Tennessee, Gus Lorenz University of Arkansas, D. Scott Akin University of Arkansas, Division of Agriculture - Cooperative Extension Service, Glenn Studebaker University of Arkansas, B. Rogers Leonard Louisiana State University AgCenter.

9:24 AM - 179 How many insecticides can be formulated into a pre-mix?

Paul W. Borth Dow AgroSciences, Ray E. Boucher Dow AgroSciences

9:36 AM - 180 EPA works with ESA

T. E. Reagan LSU A

Moved to Tuesday P-IE, 9:12 am White Oak Lecture Hall

#### WEDNESDAY, 7 MARCH

## UPDATING THE STATUS OF THE BEAN PLATASPID, MEGACOPTA CRIBRARIA, IN ITS EXPANDED RANGE IN NORTH AMERICA

8:00 - 10:10

Harris Lecture Hall

#### **Organizers and Moderators:**

Wayne A. Gardner and John Ruberson

8:00 AM - 181 Invasion and spread of the Bean Plataspid in North America

Wayne Gardner University of Georgia.

8:18 AM - 182 Genetic analysis of invasive populations of Megacopta cribraria and its bacterial endosymbiont in North America

**Tracie M. Jenkins** *University of Georgia*, **Tyler D. Eaton** *University of Georgia*.

8:36 AM - 183 The Bean Plataspid in kudzu: biology and impacts on growth

James L. Hanula USDA Forest Service, Yanzhuo Zhang University of Georgia, Scott Horn USDA Forest Service.

8:54 AM - 184 Pest status and management of Megacopta cribraria in soybean in the southeastern United States Phillip M. Roberts University of Georgia, Jeremy K. Greene Clemson University, John All University of Georgia, G. David Buntin University of Georgia, Nicholas J. Seiter Clemson University, Michael D. Toews University of Georgia.

9:12 AM - 185 *Megacopta cribraria* as a nuisance pest Daniel R. Suiter *University of Georgia*.

9:30 AM - 186 Possibilities for classical biological control of *Megacopta cribraria* in its expanded range John R. Ruberson *University of Georgia*, Walker A. Jones *USDA - ARS*, Keiji Takasu *Kyushu University*, Jeremy K. Greene *Clemson University*.

9:48 AM - 187 Panel Discussion: where do we and *Megacopta* go from here?

Joe E. Eger *Dow AgroSciences*.

## WEDNESDAY, 7 MARCH

#### **BREAK**

Conference Center Level 2

10:00 - 10:30

## WEDNESDAY, 7 MARCH

## SOUTHEASTERN BRANCH BUSINESS MEETING

Harris Lecture Hall

10:30 - 11:30

## WEDNESDAY, 7 MARCH

## SOUTHWESTERN BRANCH BUSINESS MEETING

White Oak Lecture Hall

10:30 - 11:30

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# PAST PRESIDENTS OF THE ESA-SEB (formerly the *Cotton States Branch*)

President	Date	Meeting Site
W. E. Hinds	3-4 Feb. 1926	Atlanta, GA
G. M. Bentley	29 Dec. 1927	Nashville, TN
G. M. Bentley	1-2 Feb. 1928	Memphis, TN
F. L. Thomas	6-7 Feb. 1929	Houston TX
B. R. Coad	6-7 Feb. 1930	Jackson, FL
J. M. Robinson	5-6 Feb. 1931	Atlanta, GA
R. W. Harned	31 Dec. 1931	New Orleans, LA
R. W. Harned	3-4 Feb. 1932	Birmingham, AL
J. W. Folsom	2-3 Feb. 1933	New Orleans, LA
R.W. Leiby	1-2 Feb. 1934	Memphis, TN Atlanta, GA
S. W. Bilsing	31 Jan 2 Feb. 1935 5-6 Feb. 1936	Jackson, MS
C. Lyle W. E. Anderson	18-20 Feb. 1937	San Antonio, TX
W. E. Dove	3-5 Feb. 1938	New Orleans, LA
C. O. Eddy	7-9 Feb. 1940	Birmingham, AL
Z. P. Metcalf	5-8 Feb. 1941	Waco, TX
F. A. Fenton	4-6 Feb. 1942	Memphis, TN
O. W. Rosewall	1-3 Feb. 1944	New Orleans, LA
E. W. Laake	24-25 Jan. 1945	New Orleans, LA
C. E. Smith	3-6 Dec. 1945	Dallas, TX
R. C. Gaines	11-16 Jan. 1947	Biloxi, MS
D. Isley	4-6 Feb. 1948	Atlanta, GA
J. T. Creighton	31 Jan 2 Feb. 1949	Baton Rouge, LA
E. W. Dunnam	13-16 Dec. 1949	Tampa, FL
J. W. Ingram	5-7 Feb. 1951	Memphis, TN
C. H. Alden	4-6 Feb. 1952	Atlanta, GA
K. L. Cockerham	9-11 Feb. 1953	New Orleans, LA
F. S. Arant	25-27 Jan. 1954	Biloxi, MS
W. G. Bruce	17-19 Jan. 1955	Tampa, FL
H. C. Young	6-8 Feb. 1956	Atlanta, GA
A. N. Tissot	4-6 Feb. 1957	Birmingham, AL
N. Allen	2-5 Dec. 1957	Memphis, TN
C. G. Lincoln	2-4 Feb. 1959	Memphis, TN
F. E. Guyton	25-27 Jan. 1960	Savannah, GA
I. J. Becnel C. N. Smith	23-25 Jan. 1961 27-30 Nov. 1961	Mobile, AL Miami, FL
R. J. Kowal	29-31 Jan. 1963	Jackson, MS
W. C. Nettles	28-29 Jan. 1964	Asheville, NC
L. D. Newsom	25-26 Jan. 1965	Little Rock, AR
I. C. Alden	29 Nov 2 Dec. 1965	New Orleans, LA
M. E. Merkl	30 Jan 2 Feb. 1967	Atlanta, GA
J. S. Roussel	29 Jan 1 Feb. 1968	Charleston, SC
C. M. Beckham	27-30 Jan. 1969	Biloxi, MS
S. R. Morris	26-29 Jan. 1970	Hot Springs, AR
W. G. Eden	30 Nov 3 Dec. 1970	Miami, FL
C. R. Jordan	1-3 Feb. 1972	Mobile, AL
C. F. Smith	30 Jan 1 Feb. 1973	Savannah, GA
T. R. Pfrimmer	9-31 Jan. 1974	Memphis, TN
S. B. Hays	28-30 Jan. 1975	Raleigh, NC
T. D. Canerday	30 Nov 3 Dec. 1975	New Orleans, LA
J. B. Graves	25-27 Jan. 1977	Charleston, SC
A. N. Sparks	24-26 Jan. 1978	Gainesville, FL
F. G. Maxwell	23-25 Jan. 1979	Nashville, TN
S. G. Turnipseed	29-31 Jan. 1980	Biloxi, MS
D. F. Martin	30 Nov 4 Dec. 1980	Atlanta, GA
J. E. Paine, Sr. R. L. Rabb	25-28 Jan. 1982	Mobile, AL
K. L. Kabb K. L. Hays	24-27 Jan. 1983 23-26 Jan. 1984	Little Rock, AR New Orleans, LA
G. J. Musick	28-31 Jan. 1985	Greenville, SC
M. H. Bass	8-12 Dec. 1985	Hollywood, FL
D. V. Allemann	26-29 Jan. 1987	Jackson, MS
B. R. Wiseman	25-28 Jan. 1988	Raleigh, NC
T. E. Skelton	30 Jan 2 Feb. 1989	Nashville, TN
J. W. Todd	4-8 Feb. 1990	Orlando, FL
E. R. Mitchell	10-13 Mar. 1991	Orange Beach, AL
		= '

D. J. Boethel       8-11 Mar. 1992       Savannah, GA         G. A. Herzog       7-10 Mar. 1993       Little Rock, AR         R. E. Lynch       6-9 Mar. 1994       Baton Rouge, LA         J. E. Eger       5-8 Mar. 1995       Charleston, SC         D. C. Herzog       3-6 Mar. 1996       Biloxi, MS         D. F. Williams       2-5 Mar. 1997       Asheville, NC         J. D. Culin       1-4 Mar. 1998       Chattanooga, TN         D. R. Johnson       28 Feb 3 Mar. 1999       Sandestin, FL         R. G. Luttrell       27 Feb 1 Mar. 2000       Mobile, AL         F. S. Guillot       4-7 Mar. 2001       Augusta, GA         G. L. Lentz       3-6 Mar. 2002       Little Rock, AR         B. L. Sparks       9-12 Mar. 2003       Baton Rouge, LA         M. L. Williams       16-18 Feb. 2004       Charleston, SC         G. R. Mullen       7-9 Mar. 2005       Tunica, MS         W. A. Gardner       5-8 Mar. 2006       Wilmington, NC         R. K. Sprenkel       2-5 Mar. 2007       Knoxville, TN         J. D. Harper       2-5 Mar. 2008       Jacksonville, FL         A. M. Simmons       8-11 Mar. 2009       Montgomery, AL         S. K. Braman       7-10 Mar 2010       Atlanta, GA <t< th=""><th></th><th></th><th></th></t<>			
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S. K. Braman 7-10 Mar 2010 Atlanta, GA F. A. Hale 19-22 Mar. 2011 San Juan, Puerto Rico	J. D. Harper	2-5 Mar. 2008	Jacksonville, FL
F. A. Hale 19-22 Mar. 2011 San Juan, Puerto Rico	A. M. Simmons	8-11 Mar. 2009	Montgomery, AL
	S. K. Braman	7-10 Mar 2010	Atlanta, GA
	F. A. Hale	19-22 Mar. 2011	San Juan, Puerto Rico
N. C. Leppla 4-7 Mar. 2012 Little Rock, AR	N. C. Leppla	4-7 Mar. 2012	Little Rock, AR

## PRESIDENTS AND CHAIRMEN OF SWB-ESA

President	Year	<b>Meeting Site</b>
Allen Knutson	2011-12	Little Rock, AR
Tom Royer	2010-11	Amarillo, TX
Carlos Blanco	2009-10	Cancun, Mexico
Bonnie Pendleton	2008-09	Stillwater, OK
Greg Cronholm	2007-08	Ft. Worth, TX
David Thompson	2006-07	Corpus Christi, TX
Bart Drees	2005-06	Corpus Christi, TX
Phil Mulder	2004-05	Austin, TX
John D. Burd	2003-04	Albuquerque, NM
Terry Mize	2002-03	Lubbock, TX
W. Pat Morrison	2001-02	Oklahoma City, OK
Jim Reinert	2000-01	Guanajuato, Mexico
James A. Webster	1999-00	San Antonio, TX
Carol Sutherland	1998-99	Ft. Worth, TX
Ann Weise	1997-98	Las Cruces, NM
Pete Lingren	1996-97	Corpus Christi, TX
Charles L. Cole	1995-96	Oklahoma City, OK
J. Terry Pitts	1994-95	Austin, TX
Sidney E. Kunz	1993-94	Dallas, TX
John G. Thomas	1992-93	Monterrey, Mexico
Don Bull	1991-92	Albuquerque, NM
Aithel McMahon	1990-91	Tulsa, OK
Russel E. Wright	1989-90	College Station, TX
Joyce Devaney	1988-89	San Antonio, TX
Russ Andress	1987-88	El Paso, TX
Don Rummel	1986-87	Dallas, TX
John E. George	1985-86	Austin, TX
Paul D. Sterling	1984-85	Monterrey, Mexico
H. Grant Kinzer	1983-84	San Antonio, TX
James R. Coppedge	1982-83	Oklahoma City, OK
Bill C. Clymer	1981-82	Corpus Christi, TX
Horace W. VanCleave	1980-81	El Paso, TX
Robert L. Harris	1979-80	San Antonio, TX
Jimmy K. Olson	1978-79	Brownsville, TX
J. Pat Boyd	1977-78	Houston, TX
Robert A. Hoffman	1976-77	Lubbock, TX
Weldon H. Newton	1975-76	Guadalajara, Mexico
Harry L. McMenemy	1974-75	Oklahoma City, OK
Roger O. Drummond	1973-74	El Paso, TX
Dieter S. Enkerlin	1972-73	Dallas, TX
Stanley Coppock	1971-72	San Antonio, TX

Chairman	Year	<b>Meeting Site</b>
C.A. King, Jr.	1970-71	El Paso, TX
Ted McGregor	1969-70	Brownsville, TX
Neal M. Randolph	1968-69	Dallas, TX
Walter McGregor	1967-68	Oklahoma City, OK
Harvey L. Chada	1966-67	San Antonio, TX
R.L. Hanna	1965-66	El Paso, TX
H.E. Meadows	1964-65	Austin, TX
Dial E. Martin	1963-64	Monterrey, Mexico
Manning A. Price	1962-63	Houston, TX
Sherman W. Clark	1961-62	Oklahoma City, OK
O.H. Graham	1960-61	San Antonio, TX
Clyde A. Bower	1959-60	El Paso, TX
Paul Gregg	1958-59	Dallas, TX
C.R. Parencia	1957-58	Houston, TX
J.C. Gaines	1956-57	San Antonio, TX
D.C. Earley	1955-56	Ft. Worth, TX
John M. Landrum	1954-55	Houston, TX
D.E. Howell	1953-54	Dallas, TX
P.J. Reno	1952-53	Galveston, TX
R.C. Bushland	1951-52	San Antonio, TX
H.G. Johnston*	1950-51	Dallas, TX

<sup>\*</sup> Southwestern Branch, American Association of Economic Entomologists



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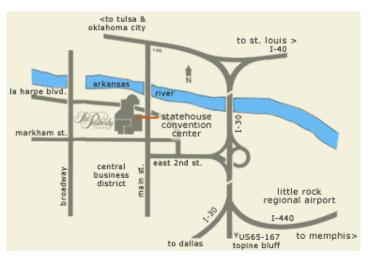






#### **Driving Directions to Peabody Hotel from I-40**

- Exit on I-30/65/67/167
- Take I-30 to Exit 141A (Markham/Cantrell) loop underneath the interstate.
- Take the Convention Center Exit to the right and go 3 blocks to Main Street.
- Turn right on Main Street and proceed 1 block to Markham. Hotel will be on your left.



#### **Travel distances**

Little Rock National Airport to/from Hotel - 8 miles Hotel to/from Memphis - 145 miles approx. Hotel to/from Dallas - 310 miles approx. Hotel to/from Oklahoma - 347 miles approx.

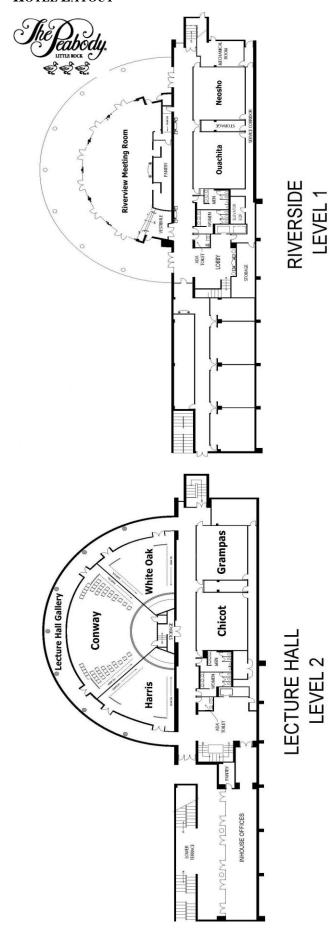
#### Airport

Like most airports in the world, Little Rock National Airport is expanding to provide even more facilities and services for travelers, meeters and greeters. The airport also is building an expanded parking garage and soon will sport a new air traffic control tower and upgraded food and beverage outlets.

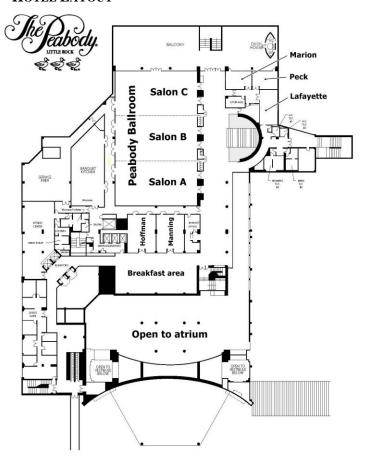
#### Airlines serving Little Rock National Airport:

- American Airlines
- ComAir
- Continental Airlines
- Delta
- Northwest
- Skyway Airlines
- Southwest
- TWA
- United Express
- US Airways

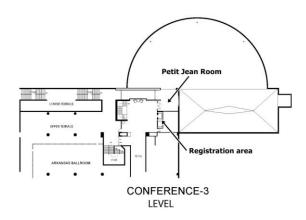
## HOTEL LAYOUT



#### HOTEL LAYOUT



MEETING ROOMS/BALLROOM LEVEL





PINNACLE MEETING ROOM

111

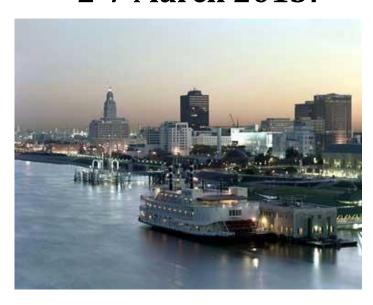
## PERSONAL MEETING PLANNER

Day/time	Paper no.	Author	Page

# **SEB** members

Mark your calendars now --See you in

Baton Rouge, LA, 2-7 March 2013!



# **SWB Members**

Mark your calendars now --See you in

Las Cruces, NM In 2013!

