

Program

Sunday 22, February 2009

2:00 - 6:00 PM **Insect Expo Setup**
Location: Exhibit Hall

Monday, 23 February 2009

7:00 - 5:00 PM **Presentation Preview Room and LAC Office**
Location: Room 107 E

7:00 - 5:00 PM **Job Opportunity Board**
Location: Room 107 E

9:00 AM - 2:00 PM **Insect Expo**
Location: Exhibit Hall

2:00 - 3:00 PM **Society of Southwestern Entomologists Executive Committee Meeting**
Location: Room 108

3:00 - 5:00 PM **SWB-ESA Executive Board Meeting**
Location: Room 108

3:00 - 5:00 PM **Tour Oklahoma State University Entomology Facilities**

3:00 - 7:00 PM **Poster Setup - All Posters**
Location: Exhibit Hall

4:00 - 7:00 PM **Registration**
Location: Front Lobby

5:00 - 7:00 PM **Linnaean Games Round I**
Location: Auditorium

8:00 PM - 12:00 AM **Student Mixer**
Location: Kevin and Andrine Shufan's House

Tuesday, 24 February 2009

7:00 AM - 7:00 PM **Registration**
Location: Front Lobby

7:00 AM - 5:00 PM **Presentation Preview Room and LAC Office**
Location: Room 107 E

7:00 AM - 5:00 PM **Job Opportunity Board**
Location: Room 107 E

8:00 - 10:20 AM **Opening Session**
Location: Auditorium

Program

8:00 - 8:15 AM	Call to Order and Welcome: SWB-ESA President Bonnie Pendleton
8:15 - 8:30 AM	Welcome from the Society of Southwestern Entomologists: Carol Sutherland, President
8:30 - 8:35 AM	Welcome to Oklahoma State University: Jonathan Edelson, Assistant Director, Oklahoma Agricultural Experiment Station
8:35 - 8:50 AM	ESA Update: Marlin Rice, President, Entomological Society of America and Robin Kriegel, Executive Director, Entomological Society of America
8:50 - 9:00 AM	Board Certified Entomologists: Bart Drees, BCE Representative
9:00 - 9:10 AM	ESA Foundation Report: Phil Mulder, Foundation Counselor
9:10 - 9:20 AM	ESA and Southwestern Branch Awards: Jesus Esquivel, Awards Committee Chairman
9:20 - 9:30 AM	Necrology Report: Jim Reinert
9:30 - 9:40 AM	Update on the 2010 SWB Meetings in Mexico, Carlos Blanco
9:40 - 10:00 AM	ESA Governing Board Report: Marvin Harris, Governing Board Representative
10:00 - 10:10 AM	Announcements: Jerry Michels, Roxanne Fegley, Program Committee
10:10 - 10:20 AM	Announcements: Edmond Bonjour, Local Arrangements Committee
10:20 - 10:30 AM	Break
10:30 AM-11:30 PM	Society of Southwestern Entomologists General Meeting Location: Auditorium
10:30 AM - 5:00 PM	Poster Viewing - Student Poster Judging (10:30 AM - 12:00 PM) Location: Exhibit Hall
	Student Competition Posters CP-01 - CP-17
	<i>Bachelors and Masters Students</i>
CP-01	<i>Solenopsis invicta</i> virus (SINV-TX5) Extraction and introduction to the red imported fire ant (<i>Solenopsis invicta</i>). Kyle Spencer, Danielle M. Tufts, Univ. of Texas-Tyler; Wayne Hunter, USDA-ARS, Fort Pierce, Florida; Blake Bextine, Univ. of Texas-Tyler
CP-02	Age determination and the red pigment in the wings of the glassy-winged sharpshooter. Chris Timmons, Univ. of Texas-Tyler; Isabelle Lauziere, Texas AgriLife Research Texas A&M Univ.; Blake Bextine, Univ. of Texas-Tyler,

Program

- CP-03 Evaluation of QRT-PCR protocols for *Xylella fastidiosa* subspecies determination. Brittany Pierce, Univ. of Texas-Tyler; Lisa Morano, Univ. of Houston-Downtown; Blake Bextine, Univ. of Texas at Tyler
- CP-04 Characterization of *Homalodisca coagulata* virus-1(HoCV-1) in Texas glassy-winged sharpshooter populations. Patrick Marshall, Univ. of Texas-Tyler; Wayne B. Hunter, U.S. Horticultural Research Laboratory, USDA-ARS, FL; Daymon Hail, Blake Bextine, Univ. of Texas-Tyler
- CP-05 Colonization of *Candidatus liberibacter* sp. in *Bactericera cockerelli*. Sarah Hancock, Blake Bextine, Univ. of Texas-Tyler
- CP-06 Taxonomy, biogeography, and phenology of the carrion beetles (Coleoptera: Silphidae) of Texas. Patricia L. Mullins, Edward G. Riley, John D. Oswald, Texas A&M Univ.
- CP-07 Identification of hemolymph associated bacteria in the glassy-winged sharpshooter (*Homalodisca vitripennis*). Daymon Hail, Blake Bextine, Univ. of Texas-Tyler
- CP-08 Life cycle and ecological aspects of the grasshopper pathogens of the *Entomophaga grylli* complex (Entomophthorales) in NE Mexico. Ivonne Torres-Acosta, Sergio R. Sánchez-Peña, Universidad Agraria Antonio Narro
- CP-09 Transmission of *Xylella fastidiosa* from culture by glassy-winged sharpshooters and non-lethal determination of vectoral capacity. Peixin Jiang, Chris Timmons, Blake Bextine, Univ. of Texas -Tyler,
- CP-10 Aquatic community impacts of riparian buffers in controlled burning of rangeland pond watersheds. Anndrea N. Stacy, Carmen M. Greenwood, Oklahoma State Univ.
- CP-11 Seasonal phenology of the beet leafhopper, *Neoliturus tenellus* (Baker) (Hemiptera: Cicadellidae), in southern New Mexico. Graeme Davis, Scott Bundy, New Mexico State Univ.
- CP-12 Impacts of disturbance on native entomopathogenic nematodes and soil-dwelling microarthropod communities in Oklahoma winter wheat. Trisha R. Dubie, Carmen M. Greenwood, Oklahoma State Univ.

Program

- CP-13 Impacts of burning and grazing on riparian arthropod communities along ponds on the Oklahoma State University Research Range. Warren R. Hanson, Carmen M. Greenwood, Oklahoma State Univ.
- CP-14 Genetic diversity analysis of *Xylella fastidiosa* strains using the ZOT gene and multiple TONB genes. Henry L. Schreiber IV, Stanley Gunawan, Univ. of Texas-Tyler; Lisa Morano, Univ. of Houston - Downtown-; Blake Bextine, Univ. of Texas-Tyler
- CP-15 Phylogeny of mesquite gall midge complex (Cecidomyiidae: Diptera). Ik Ju Park, David C. Thompson, New Mexico State Univ.
- CP-16 A preliminary survey of the blister beetles of New Mexico. Sam Lowry, Scott Bundy, New Mexico State Univ.

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PhD Students

CP-17 Integration and location of picorna-like viruses in various insect taxa. Danielle M. Tufts, Univ. of Texas-Tyler; Wayne B. Hunter, USDA-ARS, Fort Pierce, Florida; Blake Bextine, Univ. of Texas- Tyler

Regular Posters P-01 - P-30

Biological Control

P-01 Who's controlling alfalfa weevil in New Mexico? Evaluating the impact of three introduced parasitoids on biological control of alfalfa weevil. Jane Breen Pierce, Patricia E. Monk, New Mexico State Univ.-Agricultural Science Center

P-02 Impact of alfalfa on biological control of insect pests in New Mexico. Jane Breen Pierce, Patricia E. Monk, New Mexico State Univ.-Agricultural Science Center

P-03 Activity of native strains of *Beauveria bassiana* against Ficus thrips (Phlaeothripidae). Jorge San-Juan Lara, Sergio R. Sánchez-Peña, Universidad Agraria Antonio Narro

P-04 Population fluctuation of the entomopathogens *Entomophaga calopteni* and *Entomophthora muscae* in a Chihuahuan desert locality. Paulina Vega-Aquino, Sergio R. Sánchez-Peña, Carina Robledo-Dominguez, Universidad Agraria Antonio Narro

Biology/Ecology/Behavior

P-05 Impact of fire ants on Attwater's prairie chicken's diet. Alejandro Calixto, Bart Drees, Texas A&M Univ.; Mike Morrow, Donna Roach, Johnny Johnson, US Fish and Wildlife Service

P-06 Tillage practices and carabid populations in the Southern Great Plains. Casi Jessie, Sarah L. Donelson, Kristopher L. Giles, Oklahoma State Univ.

Program

- P-07 Indicators of ecological impact by *Solenopsis invicta*: anuran (Amphibia) abundance and ant diversity. Elsy María Delgado-García, Universidad Agraria Antonio Narro; María Fábregas-Hernández, Universidad Complutense de Madrid, Spain; Jorge Quezada-Martinez, Paulina Vega-Aquino, Sergio R. Sanchez-Peña, Universidad Agraria Antonio Narro
- P-08 Effect of interaction between *Tribolium confusum* (Coleoptera: Tenebrionidae) and *Liposcelis decolor* (Psocoptera: Liposelididae). George P. Opit, Edmond L. Bonjour, Oklahoma State Univ.
- P-09 Comprehensive evaluation of miticides for control of spider mite on corn. Kathy Vaughn, Texas AgriLife Research; Christian Nansen, Texas Tech Univ. and Texas AgriLife Research; Ali Hosseini, Texas AgriLife Research; Amelia Jorge Sidumo, Texas Tech Univ.
- P-10 Oviposition responses of aphidophagous coccinellidae and chrysopidae to aphid and intraguild predator presence in sorghum. Mpho W. Phoofolo, K. L. Giles, Oklahoma State Univ.; N.C. Elliott, USDA-ARS-PSWCRL

Crop Protection

- P-11 Chemical control of adult potato psyllid, *Bactericera cockerelli* (Homoptera: Psyllidae). Ali Hosseini Gharalari, Texas A&M Univ.- Texas AgriLife Research; Christian Nansen, Texas A&M Univ.-Texas AgriLife Research; Scott Lawson, Sygenta Crop Protection, INC.; J. Gilley, J.E. Munyaneza, K. Vaughn, Texas AgriLife Research
- P-12 Efficacy of Belt in Western bean cutworm management. Bonnie B. Pendleton, West Texas A&M Univ.; Roxanne Fegley, Texas AgriLife Extension Service; Jerry Michels, Texas AgriLife Research
- P-13 Insecticidal management of lygus and relative boll damage in the Texas High Plains. David Kerns, Texas AgriLife Extension Service; Abhilash Balachandran, Texas Tech Univ.; Megha Parajulee, Texas AgriLife Research; Brant Baugh, Texas AgriLife Extension Service
- P-14 Identification of brown stink bug species in central Texas. J.F. Esquivel, R.M. Anderson, R.M. Droleskey, USDA-ARS
- P-15 Pecan ipmPIPE. Marvin Harris, Alejandro Calixto, Texas A&M Univ.

Program

P-16 Response of cotton to fleahopper control based on growing conditions using the fleahopper to adjust fruit load. Roy D. Parker, Texas AgriLife Extension Service

Medical/Veterinary

P-17 Study of horse decomposition. Beth McDow, Heather Ketchum, Univ. of

P-18 A preliminary study of the seasonal phenology of ticks in central Oklahoma. Joshua Wages, Univ. of Oklahoma Health Science Center; Heather R. Ketchum, Univ. of Oklahoma

Stored Grain Insects

P-19 Efficacy of Diacon for the control of *Plodia interpunctella* (Lepidoptera: Pyralidae) and *Tribolium castaneum* (Lepidoptera: Tenebrionidae) in bird seed blocks. George P. Opit, Edmond L. Bonjour, Oklahoma State Univ.

Host Plant Resistance

P-20 Bird cherry-oat aphid resistance in barley. Do Mornhinweg, USDA-ARS, Stillwater, OK; Harold Bockelman, USDA-ARS, Aberdeen, ID

Physiology/Toxicology/Biochemistry/Molecular

P-21 DNA barcoding identifies *Diuraphis* aphids from all life stages. Kevin A. Shufran, Gary J. Puterka, USDA-ARS

P-22 Susceptibility of *Tetranychus urticae* Koch (Acari: Tetranychidae) collected in corn to acaricides of different toxicological group. Oton Bravo Santos, Jeronimo Landeros Flores, Ernesto Cerna Chavez, Claudio Rios Velasco, Jhonathan Cambero Campos, Universidad Agraria Antonio Narro

Regulatory/Extension

P-23 Imported fire ant eXtension: An new way of connecting experts to provide unbiased information for the client. Kathy Flanders, Auburn Univ.; Bastiaan M. Drees, Paul N. Nester, Texas AgriLife Extension Service

Program

Systematics/Morphology/Evolution

- P-24 Genetic relatedness (ITS1 and ITS2 regions) among *Helicoverpa zea* (Boddie) from different host plants near Tampico, Mexico. Ausencio Azuara-Dominguez, Universidad Agraria Antonio Narro; Ompaththage Perera, Carlos A. Blanco, SIMRU, USDA-ARS, Stoneville, MS; Sergio R. Sanchez-Peña, Universidad Agraria Antonio Narro
- P-25 Life history of *Corimelaena incognita* (Hemiptera: Thyreocoridae) in New Mexico. C. Scott Bundy, New Mexico State Univ.; J.E. McPherson, Southern

Urban

- P-26 Susceptibility of Bermudagrass, St. Augustinegrass and Zoysiagrass to colonization by Rhodesgrass Mealybug (*Antomina graminis*). James A. Reinert, Texas A&M AgriLife Research; J.M. Chantos, S. Bradleigh Vinson, Texas A&M Univ.

WERA

- P-27 Collaborative screening for Russian wheat aphid (*Diuraphis noxia*) resistance. Vicki Tolmay, ARC- Small Grain Res. Inst.; Gary Puterka, Cheryl Baker, ARS-USDA; Robbie Lindeque, ARC- Small Grain Res. Inst.
- P-28 Virulence and biology of RWA biotypes are affected by preconditioning RWA colonies on resistant and susceptible hosts. Tia Nobles, Oklahoma State Univ.; Gary J. Puterka, ARS-USDA; David Porter, Oklahoma State Univ., Rodney Cooper, ARS-USDA
- P-29 Hessian fly-free date in Kansas: Is it still valid after 70+ years? Holly Davis, Aqeel Ahmad, Jeff Whitworth, Gary Cramer, Phil Sloderbeck, Ming-Shun Chen, Mary Knapp, Kansas State Univ.
- P-30 Evaluation of Hessian fly populations in North Dakota using pheromone trapping. Kirk Anderson, Marion O. Harris, North Dakota State Univ.

1:00 - 4:08 PM

Student Oral Competition

Location: Auditorium

Moderator: Jerry Michels, Texas AgriLife Research

1:00 - 1:10 PM

Introduction

Masters Students

Program

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- CO-01
1:10 - 1:22 PM
Monitoring to establish a model of Southwestern corn borer (Lepidoptera: Crambidae) dynamics for the Texas High Plains. Camilo A. Garzon, Bonnie B. Pendleton, WTAMU Dept Agricultural Sciences; G. J. Michels, Jr., Texas AgriLife Research; Roxanne Fegley, Texas AgriLife Extension Service
- CO-02
1:22 - 1:34 PM
Cost and effort required to start a base line survey for insects. Joy Lynn Newton, Texas AgriLife Research and West Texas A&M Univ.; G. J. Michels, Jr., Texas AgriLife Research
- CO-03
1:34 - 1:46 PM
Electrical penetration graph comparisons of squash bugs (*Anasa tristis*, Hemiptera: Coreidae) feeding on watermelon and its relatives. Kaushal Maskey, Astri Wayandande, Oklahoma State Univ.; Benny Bruton, USDA-ARS; Jacqueline Fletcher, Oklahoma State Univ.
- CO-04
1:46 - 1:58 PM
Effect of subolesin gene silencing on the expression of Macrophage Migration Inhibitory Factor (MIF) in American dog tick, *Dermacentor variabilis*. N.B. Wasala, D.C. Jaworski, C.J. Bowen, Oklahoma State Univ.
- CO-05
1:58 - 2:10 PM
Expression, purification, and characterization of peptidoglycan recognition protein-1 from the tobacco hornworm, *Manduca sexta*. Niranji Sumathipala, Haobo Jiang, Oklahoma State Univ.
- CO-06
2:10 - 2:22 PM
Preliminary morphological analysis for systematic revision of the longhorned beetle genus *Elytroleptus* Dugés (Coleoptera: Cerambycidae: Cerambycinae: Trachyderini). Tracy L. Grzymala and Kelly B. Miller. Univ. New Mexico, Museum of the Southwest
- CO-07
2:22 - 2:34 PM
Temporal and spatial distribution of Imidacloprid in pecan trees. Bryan Fontes, Brad Lewis, New Mexico State Univ.
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- 2:34 - 2:44 PM** **Break**
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- PhD Students*
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- CO-08
2:44 - 2:56 PM
Spider mite response to water stress of corn. Amelia Jorge Sidumo, Texas Tech Univ.; Christian Nansen, Texas Tech Univ. and Texas AgriLife Research; Ali Hosseini, Kathy Vaughn, Texas AgriLife Research

Program

- CO-09
2:56 - 3:08 PM
Analysis of ant faunas in adjacent *Solenopsis invicta* infested and non-infested plots in Matamoros, Mexico. Jorge L. Quezada-Martinez, Elsy M. Delgado-García, Universidad Agraria Antonio Narro; Heriberto Diaz-Solís, Depto Recursos Naturales Renovables, UAAAN; Sergio R. Sanchez-Peña, Universidad Agraria Antonio Narro
- CO-10
3:08 - 3:20 PM
Challenges in tracking intercrop movement of *Lygus hesperus* between cotton and alfalfa. Ram B. Shrestha, Megha N. Parajulee, Stanley C. Carroll, Texas AgriLife Research
- CO-11
3:20 - 3:32 PM
On the longhorned beetles (Cerambycidae) of the world: a phylogeny based on molecular data. Eugenio H. Nearn, Kelly B. Miller, Univ. of New Mexico; Ian P. Swift, Traci L. Grzymala, April J. Tafoya, Discovery Bay, CA
- CO-12
3:32 - 3:44 PM
Green peach aphid (*Myzus persicae* Sülzer)-*Arabidopsis thaliana* interaction- Role of Arabidopsis PAD4 (PHYTOALEXIN DEFICIENT4) protein in plant defense. Joe Louis, Univ. of North Texas; Jane E. Parker, Max-Planck Institute for Plant Breeding Research; Jyoti Shah, Univ. of North Texas
- CO-13
3:44 - 3:56 PM
Evidence of dietary cuticular hydrocarbons transfer in *Reticulitermes flavipes* through social interaction. Ngan Nguyen, Robin Madden, Oklahoma State Univ.; Kenneth Brown, City of New Orleans Mosquito and Termite Control Board; Brad Kard, Jack Dillwith, Oklahoma State Univ.
- CO-14
3:56 - 4:08 PM
Biochemical properties of the catalytic domain of *Schizaphis graminum* acetylcholinesterase-1 produced by baculovirus-infected insect cells. Picherg Zhao, Oklahoma State Univ.; Kunyan Zhu, Kansas State Univ.; Haobo Jiang, Oklahoma State Univ.

4:00 - 7:00 PM **Symposium I: Insects as Vectors of Pathogens Important to Plant, Animal, and Human Health**

Room: Auditorium

Co-Organizers/Moderators: Jesus F. Esquivel, USDA-ARS, Areawide Pest Management Research Unit, College Station, TX; Astri Wayadande, Oklahoma State Univ.

4:00 - 4:10 PM

Introduction

SS-1
4:10 - 4:30 PM

Bacterial pathogen uptake and gene transfer within *Alphitobius diaperinus* (Panzer). **Tawni Crippen**, USDA-ARS, Food and Feed Safety Research Unit, College Station, TX

Program

SS-2 4:30 - 4:50 PM	Tick feeding and <i>Ehrlichia chaffeensis</i> transmission in white-tailed deer. Deborah Jaworski, Nalinda Wasala, Oklahoma State Univ.
SS-3 4:50 - 5:10 PM	Epidemiology of the beet leafhopper (<i>Circulifer tenellus</i>) and curly top in New Mexico. Rebecca Creamer, New Mexico State Univ.
SS-4 5:10 - 5:30 PM	Zebra complex of potato: using molecular biology to study an emerging epidemic. Blake Bextine, Univ. of Texas at Tyler
SS-5 5:30 - 5:50 PM	Influence of molecular protocols on the management of Pierce's disease . Forrest Mitchell, Texas AgriLife Research, Stephenville, TX
5:50 - 6:00 PM	Break
SS-6 6:00 - 6:20 PM	Fly dissemination of E. coli O157:H7 in pre-harvest leafy greens. Justin Talley , Oklahoma State Univ.
SS-7 6:20 - 6:40 PM	Stink Bugs as potential disease vectors. Jesus F. Esquivel , USDA-ARS, Areawide Pest Management Research Unit, College Station, TX
SS-8 6:40 - 7:00 PM	Vector-pathogen interactions: The status of our discipline – Open Discussion. Astri Wayadande , Oklahoma State Univ.

Program

4:30 - 7:00 PM **Student Affairs Committee Meeting**
Location: Room 108

7:15 PM **Banquet - President's Address**
Location: Exhibit Hall

THE 'OTHER' SOCIETY: A Brief History of the Southwestern Entomological Society, Society of Southwestern Entomologists & Southwestern Entomologist. Bonnie Pendleton, Southwestern Branch President

Student competition award presentations

Wednesday, 25 February 2009

7:00 AM - 5:00 PM **Registration**
Location: Front Lobby

7:00 AM - 5:00 PM **Presentation Preview Room and LAC Office**
Location: Room 107 E

7:00 AM - 5:00 PM **Job Opportunity Board**
Location: Room 107 E

8:00 - 11:20 AM **Symposium II: Advances in Aphid-Plant Interactions and Biotype Development**

Location: Auditorium

Co-Organizers/Moderators: Gary J. Puterka and William R. Cooper, Plant Science Research Laboratory, USDA-ARS, Stillwater, OK 74074

8:00 - 8:10 AM Introduction

SS-9
8:10 - 8:30 AM Molecular models for Russian wheat aphid – wheat interactions. Anna-Maria Botha-Oberholster, Zacharias H. Swanevelder, Thia Schultz, Carlo S. Jackson, N Francois, and V. Burger, Univ. of Pretoria, South Africa; Leon van Eck, Nora V. Lapitan, Colorado State Univ.

SS-10
8:30 - 8:50 AM Analysis of the salivary proteins produced by Russian wheat aphid. William Cooper, USDA-ARS, Plant Science Res. Lab., Stillwater, OK

SS-11
8:50 - 9:10 AM Development of resistance to new Russian wheat aphid biotypes in South Africa. **Vicki Tolmay**, ARC-Small Grain Instit., South Africa

Program

SS-12 9:10 - 9:30 AM	Global phylogenetics of an invasive aphid species: Evidence for multiple invasions into North America. C. Michael Smith, Kansas State Univ.
SS-12 9:30 - 9:50 AM	Sexual reproduction in RWA and its potential role in creating biotypes. Gary J. Puterka , USDA-ARS, Plant Science Res. Lab., Stillwater, OK
9:50 - 10:00 AM	Break
SS-14 10:00 - 10:20 AM	Status and biotypic diversity of greenbug biotypes in the United States. John Burd, USDA-ARS, Stillwater, OK
SS-15 10:20 - 10:40 AM	Plant defense responses to <i>Aphid gossypii</i> (cotton-melon aphid) feeding in resistant and susceptible melon (<i>Cucumis melo</i>). James Anstead , Ning Song, Gary A. Thompson, Oklahoma State Univ.
SS-16 10:40 - 11:00 AM	Variation in sensitivity of the potato aphid to host plant resistance in tomato. Fiona Goggin and Godshen Palliparambil, Univ. of Arkansas, Fayetteville; John Reese, Kansas State Univ.; Frederic Francis, Univ. of Gembloux, Belgium
SS-17 11:00 - 11:20 AM	Interactions of salivary components from pea aphid with its host plant at the molecular level. Gerald Reeck and Feng Cui, Kansas State Univ.
8:00 - 11:00 AM	10-Minute Oral Submitted Papers Session I Location: Room 108 Moderator: Heather Lynn Lindon, Texas AgriLife Research
8:00 - 8:10 AM	Introduction
	Biological Control
O-01 8:10 - 8:22 AM	Impacts of <i>Rhinocyllus conicus</i> and a native weevil, <i>Lixus pervestitus</i> on the endangered Sacramento Mountains Thistle. Kevin T. Gardner, David C. Thompson, Debra Guenther, New Mexico State Univ.
O-02 8:22 - 8:34 AM	Effects of ants on establishment of <i>Diorhabda elongata</i> , a biocontrol agent of saltcedar. Mark Muegge, Allen Knutson, Texas AgriLife Extension Service
O-03 8:34 - 8:46 AM	A list of some entomopathogens from Northeastern Mexico. Sergio R. Sánchez-Peña, Ivonne Torres-Acosta, Paulina Vega-Aquino, Jorge San-Juan-Lara, Universidad Agraria Antonio Narro
O-04 8:46 - 8:58 AM	Insect Management on organic sweet corn in LRGV of Texas. S. M. Greenberg, J.M. Bradford, J.J. Adamezyk, L. Zibilske, SARC-ARS-USDA; T.-X. Liu, Texas AgriLife Research, Weslaco, TX

Program

O-05
8:58 - 9:10 AM Reducing fertilization to improve biological of thrips on roses. Andrew Chow, Department of Entomology, Texas A&M Univ.; Amanda Chau, Division of Natural Sciences, Blinn College; Kevin M. Heinz, Department of Entomology, Texas A&M Univ.

Biology/Ecology/Behavior

O-06
9:10 - 9:12 AM Effect of parental feeding on the production of tobacco budworm offspring. Carlos A. Blanco, M. Guadalupe Rojas, USDA-ARS; Astrid T. Groot, Juan A. Morales-Ramos, G. Chad Roberts, Craig A. Abel, Max Planck Institute for Chemical Ecology

O-07
9:12 - 9:24 AM Screening Soybean Lines for Resistance to Stinkbugs. Christian Nansen, Texas AgriLife Research

O-08
9:24 - 9:36 AM Potato psyllid, *Bactericera cockerelli*, dispersal and effects on potato yields. Donald C. Henne, Fekede Workneh, Charlie M. Rush, Texas AgriLife Research

O-09
9:36 - 9:48AM Using water bottles for trapping of moths in food facilities. Manuel Campos, Allen Knutson, Texas AgriLife Extension Service; Jim Heitholt, Texas A&M Univ.-Commerce

9:48- 10:00 AM Break

Physiology/Toxicology/Biochemistry/Molecular

O-10
10:00 - 10:12 AM Macrophage migration inhibitory factor (MIF) protein localization and gene expression in *Amblyomma americanum* (Ixodidae). C.J. Bowen, D.C. Jaworski, N.B. Wasala, Oklahoma State Univ.

Regulatory/Extension

O-11
10:12 - 10:24 AM Bugs (et al.) beckon your attention! Your IDEP report for 2008. Carol Sutherland, New Mexico State Univ.; Richard Grantham, Oklahoma State Univ.; Mark Muegge, Texas AgriLife Extension Service

Urban

O-12
10:24- 10:36 AM Foraging by red imported fire ant on turfgrass. James A. Reinert, J.E. Mc Coy, Texas A&M AgriLife Research

Program

O-13
10:36 - 10:48 AM Recruit^(TM)HD, a new termite bait from Dow AgroSciences: product concept overview and bait matrix development. Joe DeMark, Joe Eger, Mike Tolley, Matt Messenger, Ellen Thoms, Mike Lees, Marc Fisher, Mike Melichar, Ronda Hamm, Jackie McKern, Dow AgroSciences

O-14
10:48 - 11:00 AM Recruit^(TM)HD, a new termite bait from Dow AgroSciences: termite hit rate, bait consumption, durability, and colony elimination. Mike Tolley, Joe DeMark, Joe Eger, Ronda Hamm, Matt Messenger, Mike Lees, Ellen Thoms, Marc Fisher, Mike Melichar, Jackie McKern, Dow AgroSciences

8:30 AM - 5:00 PM **Poster Viewing**
Location: Exhibit Hall

1:30 - 4:30 PM **Symposium III: Ecosystem Factors and IPM: Concepts and Implementation**
Location: Auditorium
Co-organizers/Moderators: Andrew Chow and Ricardo Ramirez, Texas A&M Univ.

1:30 - 1:40 PM Introduction

SS-18
1:40 - 2:00 PM Cold tolerance of *Lysiphlebus testaceipes* and *Schizaphis graminum* and the implications for aphid management in Oklahoma. Kristopher Giles, Oklahoma State Univ.; Douglas Jones, Univ. of Illinois Extension

SS-19
2:00 - 2:20 PM Damage potential of cold temperatures and western flower thrips on cotton. Andrew Chow, Kevin M. Heinz, Peter Krauter, Texas A&M Univ.; David L. Kerns, Christopher G. Sansone, Texas AgriLife Extension Service

SS-20
2:20 - 2:40 PM Rethinking herbivory: Interactions of plant defense and natural enemies in cotton. Ricardo A. Ramirez, Micky D. Eubanks, Texas A&M Univ.; Steve Frank, North Carolina State Univ.; Caralyn Zehnder, Georgia College and State Univ.

SS-21
2:40 - 3:00 PM Environmental and landscape impacts on IPM in New Mexico. **Jane B. Pierce**, New Mexico State Univ.-Artesia

3:00 - 3:10 PM **Break**

Program

SS-22 3:10 - 3:30 PM	The role of host plants in population differentiation of cotton fleahopper: IPM considerations. Apurba K. Barman, Raul F. Medina, Texas A&M Univ.; Megha N. Parajulee, Texas AgriLife Research; Christopher G. Sansone, Texas AgriLife Extension Service; Charles Suh, USDA-ARS, Areawide Pest Management Research Unit
SS-23 3:30 - 3:50 PM	Biological control of saltcedar: Why can't we predict success? David C. Thompson , Kevin Gardner, and Debra Guenther, New Mexico State Univ.
SS-24 3:50 - 4:10 PM	Top down or bottom up? Ecologically based pest management of emerald ash borer. Eric J. Rebek , Oklahoma State Univ.
SS-25 4:10 - 4:30 PM	Molecular and pheromone studies of pecan nut casebearer and its implications for pecan management. Emilie Hartfield, Raul F. Medina and Marvin K. Harris, Texas A&M Univ.
1:30 - 3:04 PM	10-Minute Oral Submitted Papers Session II Location: Room 108 Moderator: Chanda Henne, Texas AgriLife Research
1:30 - 1:40 PM	Introduction
	Systematics/Morphology/Evolution
O-15 1:40 - 1:52 PM	The Fossil Entomofauna of the Lower Permian Wellington Formation of Kansas and Oklahoma. Roy J. Beckemeyer, Univ. of Kansas Natural History Museum; Joseph D. Hall, Chaparral Energy
<hr/> Crop Protection <hr/>	
O-16 1:52 - 2:04 PM	Sharpshooters and Xylella, a newly recognized insect disease complex for pecan. Bill Ree, Texas AgriLife Extension Service; Forrest Mitchell, Texas AgriLife Research; Randy Sanderlin, Louisiana State Univ.
O-17 2:04 - 2:16 PM	Using landscape metrics to assess plant stress in wheat fields infested by <i>Diuraphis noxia</i> . Georges F. Backoulou, Oklahoma State Univ.; Norman C. Elliott, USDA-ARS; Mpho Phoofolo, Kristopher Giles, Oklahoma State Univ.
O-18 2:16 - 2:28 PM	Pecan insect observations in Southwest Arkansas: Linkages to Louisiana and Oklahoma IPM Programs. Randall G. Luttrell, Univ. of Arkansas
O-19 2:28 - 2:40 PM	Western bean cutworm in corn grown in the Texas Panhandle. Roxanne Fegley, Texas AgriLife Extension Service; Bonnie Pendleton, West Texas A&M Univ.; Jerry Michels, Texas AgriLife Research

Program

Medical/Veterinary

- O-20
2:40 - 2:52 PM Invasive leaf resources alleviate density dependence in the invasive mosquito, *Aedes albopictus*. Michael H. Reiskind, Ali Zarrabi, Oklahoma State Univ.; L. Philip Lounibos, Univ. Florida,
- O-21
2:52 - 3:04 PM The maggot ate whom for dinner? Sonja L. Swiger, Texas AgriLife Extension Service; Jerry. A. Hogsette, USDA-CMAVE; James E. Maruniak, Jerry F. Butler, Univ. of Florida
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- 1:30 - 5:00 PM **WERA (Western Extension/Education Research Activity) 66 Meeting**
Location: Rooms 101-102
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- 3:00 - 7:00 PM Poster Removal**
Location: Exhibit Hall
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- 5:00 - 7:00 PM Linnaean Games Final Round - Awards Presentation**
Location: Auditorium
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- Thursday, 26 February 2009**
- 8:00 - 10:00 AM Final Business Meeting**
Location: Room 216 Noble Research Center, OSU Campus
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- 10:00 AM - 12:00 PM SWB-ESA Executive Board Final Meeting**
Location: Room 216 Noble Research Center, OSU Campus
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