58TH ANNUAL MEETING
SOUTHWESTERN BRANCH, ENTOMOLOGICAL SOCIETY OF AMERICA
and the ANNUAL MEETING,
SOCIETY OF SOUTHWESTERN ENTOMOLOGISTS

11 – 14 APRIL 2010
HILTON HOTEL
CANCÚN, QUINTANA ROO, MÉXICO
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The **Entomological Society of America** (ESA) is the largest organization in the world serving the professional and scientific needs of entomologists and people in related disciplines. Founded in 1889, ESA today has more than 6,000 members affiliated with educational institutions, health agencies, private industry, and government. Members are researchers, teachers, extension service personnel, administrators, marketing representatives, research technicians, consultants, students, and hobbyists. [http://www.entsoc.org](http://www.entsoc.org).

The **Southwestern Entomological Society** was founded in 1976. The purpose of the society is to publish a refereed journal, the Southwestern Entomologist. This is a regional publication covering entomological research conducted in Texas, Oklahoma, New Mexico and Mexico. Members meet annually in conjunction with the Southwestern Branch of the Entomological Society of America (ESA). In 2003, the society changed its name to the **SOCIETY OF SOUTHWESTERN ENTOMOLOGISTS** due, in part, to long-standing confusion between this and the Southwestern Branch of ESA. We hope this change will encourage more entomologists to join the society. [http://sswe.tamu.edu](http://sswe.tamu.edu).

The **Entomological Foundation** is a national, not-for-profit organization governed by a Board of Directors made up of representatives from the public and private sectors including academic institutions, government, and business and industry. The Entomological Foundation develops and implements a blend of programs designed to spark interest in science and insects among elementary school children and to sustain that interest through educational programs and outreach activities; offers scholarships and student awards to recognize excellence and support continued education of students in the area of entomology; and grants professional awards that recognize accomplishments in entomology and related areas. [http://www.entfdn.org](http://www.entfdn.org).

**Board certification in entomology** is a way for professionals to stand out from the crowd, to prove their capabilities to customers and employers, and differentiate themselves from others in the field. [http://www.entsoc.org/certification/bce](http://www.entsoc.org/certification/bce).
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OVERVIEW: SUNDAY, 11 APRIL (Miramar Rooms)

8:00 - 17:00  Registration
9:00 - 17:00  Presentation Preview Room and LAC Office (Miramar III)
9:00 - 17:00  Job Opportunity Board (Miramar III)
10:00 - 17:00  Poster Setup and loading (Miramar III)
14:00 - 15:00  SWB-ESA Executive Board Meeting (Miramar II)
15:00 - 16:00  Society of Southwestern Entomologists Executive Committee
16:00 - 17:00  Society of Southwestern Entomologists General Meeting (Miramar II)
17:00 - 19:30  Linnaean Games Round I (Miramar II)
19:30 - 21:00  Opening Session A – Welcoming Dr. David B. Hogg / Cocktail at the Pool Side

* All student presentations (oral and poster) for the competition need to be downloaded by 8:00 AM on Monday (12Apr).

OVERVIEW: MONDAY, 12 APRIL (Miramar Rooms)

8:00 - NOON  Registration
9:00 - 17:00  Presentation Preview Room and LAC Office (Miramar III)
9:00 - 17:00  Job Opportunity Board (Miramar III)
10:00 - 17:00  Poster Viewing (Miramar III)
7:30 - 9:00  Opening session B / Announcements (Miramar II)
9:00 - 13:00  Student Oral Competition (Miramar II)
14:30 - 17:30  Round Table - Mass Rearing of Beneficial Insects (Miramar II)
17:30 - 19:30  Linnaean Games Final Round I (Miramar II)
19:30 - 21:15  Student Mixer – Professionals are Welcome (Pool area)

* ALL Posters will be displayed twice during the day.
OVERVIEW: TUESDAY, 13 APRIL (Miramar Rooms)

8:00 - NOON  Registration

9:00 - 17:00  Presentation Preview Room and LAC Office (Miramar III)

9:00 - 17:00  Job Opportunity Board (Miramar III)

10:00 - 13:00  Poster Viewing (Miramar III)

9:00 - 13:00  Symposium - Trends in Helicoverpa zea Population Dynamics, Migration and IPM in North America (Miramar I)

9:00 - 13:00  Symposium - From the Genome to the Field: Global Impacts of Insect Transmitted Plant Pathogens (Miramar II)

9:00 - 13:00  10-Minute Oral Submitted Papers Session (Miramar IV)

19:00 - 21:00  Beach party / Awards presentations (Beach)

OVERVIEW: WEDNESDAY, 14 APRIL (Miramar Rooms)

7:00 - 9:00  Final Business Meeting

  SWB-ESA Executive Board Final Meeting (Miramar II)

8:30 - NOON  Registration

9:00 - 13:00  Symposium - New Insights on Bt Research: 2010 (Miramar II)

9:00 - 13:00  Symposium - Advances in Pecan Entomology in the SW-US and México (Miramar I)

* All presentations (oral and poster) need to be downloaded by 5:00 PM, a day before to the presentation. Contact your symposium organizer to have your talk ready for this event.
MEETING INFORMATION

REGISTRATION: Persons attending the meetings or participating in the program must register. On-site registration fees for the SWB-ESA meeting are:

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<th>Registration</th>
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<tbody>
<tr>
<td>SWB or SSE Member</td>
<td>$165</td>
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<tr>
<td>Student SWB or SSE Member</td>
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<td>E.S.A Honorary/Emeritus Member</td>
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<tr>
<td>Non-member</td>
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The Registration fee includes admission to all functions, including the Beach party.

ESA CERTIFICATION BOARD: Information regarding the Certification Board of ESA is available at the Registration Desk.

SOCIETY OF THE SOUTHWESTERN ENTOMOLOGIST: Information regarding the Subscription to SW Entomologist is available at the Registration Desk.

SPONSORS: We thank our sponsors for their generous support of activities such as the student mixer, Linnaean Games, breaks and spouse/guest functions.

AUDIOVISUAL: Speakers must submit their presentations as PowerPoint files on CD or flash drive to the Presentation Preview and Collection Desk one-half day before the session during which the paper will be presented.

PROGRAM SCHEDULE AND MODERATORS: Speakers are limited to the time indicated in the schedule, and moderators have the responsibility and authority to restrict time to that in the schedule. Moderators sign in at the Presentation Preview and Collection Desk before their session and receive timers and laser pointers.

RETIREE AND SPOUSE/GUEST HOSPITALITY: Retiree and spouse/guest information is available at the Registration Desk.

JOB OPPORTUNITY BOARD: The Student Affairs Committee of the SWB-ESA has a Job Opportunity Board available during the meetings. Employers should provide copies of available opportunities to post. Potential employees/students should bring multiple copies of resumes to leave during the meeting. Volunteers operating the Board will serve as liaisons to arrange interviews if needed.

LOST AND FOUND: Articles should be turned in or reported to the Registration Desk or hotel main desk.

MESSAGES: A message board is at the Registration Desk.

SILENT AUCTION: SUNDAY TO TUESDAY (6:30 PM), Info at the Registration Desk
Monday, 12 APRIL

Opening Session B / Announcements

7:30 General Announcements. Carlos A. Blanco, Southwestern Branch, President.

7:45 The Entomological Foundation. Brad Vinson, President.

8:00 Message from the E.S.A. Alan Kahan, Director of Communications.

8:15 Necrology Report – Jim Reinert

8:30 Board Certified Entomologists – Bart Drees, BCE Representative.

8:45 Plant Insect Ecosystem Section - Bonnie Pendleton, Vice-President.

Student Oral Presentation Competition

Bachelor of Science:

9:00 Development of QRT-PCR Protocols for Rapid Xylella fastidiosa Subspecies Differentiation and Analysis. Brittany Pierce, University of Texas at Tyler; Lisa Morano, University of Houston-Downtown; and Blake Bextine, University of Texas at Tyler.

Master of Science:

9:12 Phylogenetic Analysis of Heat Shock Proteins in Glassy-Winged Sharpshooter (Homalodisca vitripennis). Henry L. Schreiber IV and Daymon Hail, University of Texas at Tyler; Wayne G. Hunter, USDA-ARS; and Blake R. Bextine, University of Texas at Tyler.


9:36 Entomopathogenic Fungi Attacking the Asian Citrus Psyllid, Diaphorina citri in the Gulf Citrus Zone of México. Rebeca Casique Valdés and Sergio René Sánchez Peña, Universidad Autónoma Agraria Antonio Narro.


10:00 Phenology of the Beet Leafhopper, Neooliturus (=Circulifer) tenellus, in Southern New México. Graeme Davis and Scott Bundy, New México State University.
Monday, 12 APRIL

Student Oral Presentation Competition… cont.  Miramar II Room

10:12  There Are Too Many Zeros in My Data! Using PC-ORD to Understand and Interpret Sparse but Large Data Sets.  Joy Lynn Newton, Texas AgriLife Research and West Texas A&M University; Jerry Michels and Chanda Henne, Texas AgriLife Research

10:24  Cold Hardiness of the Corn Earworm: Implications for Adaptation to Climate Change and Sweet Corn IPM in Minnesota.  Amy Morey and William Hutchison, University of Minnesota; and Robert Venette, USDA Forest Service.

10:36  Break

10:50  The Suitability of Diorhabda carinulata as a Food Source for Coccinella septempunctata.  Alissa M. Berro, Tom Royer, and Kris Giles, Oklahoma State University.

11:02  Biology of Asphondylia prosopidis Complex (Diptera: Cecidomyiidae) and Its Fungal Associates: Potential Biological Control Candidates for South African Mesquite.  Ik Ju Park, Howard Beuhler, Soum Sanogo, and David Thompson, New México State University.

Doctor of Philosophy:

11:14  Population Genetic Structure of Pseudatomoscelis seriatus: Interplay of Geography and Host Plant Species.  Apurba K. Barman, Texas A&M University; Megha N. Parajulee, Texas AgriLife Research; Chris Sansone, Texas AgriLife Extension; and Raul F. Medina, Texas A&M University.


11:40  High Resolution System for Monitoring Age-specific Lifetime Activity Behavior in Tephritid Fruit Flies: Case Study of Anastrepha ludens on Two Diets.  Amy E. Morice, University of California at Davis; Sige Zou, National Institute of Aging; Kevin Haub, University of California at Davis; and Pablo Liedo, El Colegio de la Frontera Sur.


Monday, 12 APRIL

Student Oral Presentation Competition… cont.  Miramar II Room

12:16  Resource Competition and Fitness Trade-offs between Two Forensically Important Blow Fly Species as a Mechanism of Co-existence within the Family Calliphoridae. J. Y. Rosati and S. L. VanLaerhoven, University of Windsor.

12:18  Bioactividad de Peumus boldus M. contra Spodoptera frugiperda y Helicoverpa zea. Gonzalo Silva Aguayo, J. Concepción Rodríguez and Angel Lagunes Tejeda, Colegio de Postgraduados; and Carlos A. Blanco, USDA-APHIS.

Student Poster Competition  Miramar III Room

Bachelor of Science:

9:00-1  Effect of Photoperiod on Greenbug (Hemiptera: Aphididae) on Sorghum. Jody R. Gilchrest and Bonnie B. Pendleton, West Texas A&M University.

9:00-2  Age Determination of the Glassy-winged Sharpshooter by Red Wing Pigmentation. Chris Timmons, University of Texas at Tyler; Aaron Hassell, Agricultural Experiment Station Texas A&M University; and Blake Bextine, University of Texas at Tyler.

9:00-3  Phylogenetic Relationships of the Zonula occludens Toxin (Zot) Genes in Populations of the Phytopathogen Xylella fastidiosa. Cassie Skipper and Henry L. Schreiber IV, University of Texas at Tyler; Lisa D. Morano, University of Houston-Downtown; and Blake R. Bextine, University of Texas at Tyler.

9:00-4  Parasitization Rates by Tetrastichus spp. (Hymenoptera: Eulophidae) on Diorhabda spp. Eggs in Laboratory and Greenhouse Trials. Josh R. Brown, Debra Guenther, and David Thompson, New México State University.

9:00-5  Effects of Nucleopolyhedrovirus over Spodoptera frugiperda (Lepidoptera: Noctuidae) Biology. Olga Lidia Ruiz Gómez, Gabriel Gallegos Morales, Claudio Rios Velasco, and Sofia Comparan Sanchéz, Universidad Autónoma Agraria Antonio Narro.


9:10-2  Pathogenic Activity of the Fungi Beauveria bassiana and Metarhizium anisopliae against Mosquito Larvae under Field Conditions in Saltillo, México. Ana Yelly Reyes Martínez and Sergio R. Sanchez Peña, Universidad Autónoma Agraria Antonio Narro.

Monday, 12 APRIL

Student Poster Competition…cont.  Miramar III Room

9:10-4  A Preliminary Evaluation of the Flea Beetles (Coleoptera: Chrysomelidae) Associated with Chile in Southern New México. Melise Schmidt, Scott Bundy, and Sam Lowry, New México State University.

9:10-5  Phylogenetic Relationships of Glassy-winged Sharpshooter (Homalodisca vitripennis) Populations. Adam Booth and Sharon Andreason, UT Tyler; Wayne Hunter, USDA-ARS; and Blake Bextine, UT Tyler

Master of Science:

9:20-1  Resistance to Maize Weevil (Coleoptera: Curculionidae) of Sorghum Grain in the Field and in Storage. Suhas S. Vyavhare and Bonnie B. Pendleton, West Texas A&M University.

9:20-2  Refining Sorghum Headworm (Helicoverpa zea) Sampling Recommendations in Kansas. Alysha Soper and Brian McCormack, Kansas State University.

9:20-3  A Preliminary Comparison of Cantharidin Levels in Blister Beetles Associated with Alfalfa Production in New México. Sam Lowry and Scott Bundy, New México State University.


Doctor of Philosophy:

9:20-5  Field and Laboratory Comparison of Life Table of Potato Psyllid (Bactericera cockerelli) and Mortality Factors Analysis on Potato and Tomato in the LRGV of Texas. Xiangbing Yang and Yong-Mei Zhang, Texas AgriLife Research; Lei Hua, Northwest A&F University; and T.-X Liu, Texas AgriLife Research.

9:30-1  Adaptation of Aphis gossypii (Hemiptera: Aphiidae) on Cotton and Melon. Yun-Li Xiao and T.-X. Liu, Texas AgriLife Research.

9:30-2  Factors Involved in the Electroantennographic Responses of the Scyphophorus acupunctatus from the Tamaulipas and Jalisco México. Ausencio Azuara, Juan Cibrián Tovar, and Obdulia Segura León, Colegio de Postgraduos; and Antonio P. Terán-Vargas, INIFAP, Campo Experimental de las Huastecas.

9:30-3  Study of Midgut Bacteria in the Red Imported Fire Ant, Solenopsis invicta Buren (Hymenoptera: Formicidae). Freder Medina, Texas A&M University; Haiwen Li, Virginia Commonwealth University School of Medicine; Darcey L. Klaahsen, Southern Plains Area Research Center; Craig J. Coates, Texas A&M University; and S. Bradleigh Vinson, Texas A&M University.

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Monday, 12 APRIL

Submitted Posters


9:40-2 Response of Helicoverpa zea from North and South of Tamaulipas to Different Conventional Insecticides. Antonio P. Terán-Vargas, Paulina Vega-Aquino and Jorge Zambrano-Gutierrez, INIFAP-Tamaulipas, Campo Experimental Las Huastecas.


9:40-5 The Effect of Diet Quality on the Decorated Cricket; Gryllodes sigillatus. Are the Males' Wings a Reliable Trait?. Hernández Joyce, and Raúl Cueva del Castillo. UNAM FES Iztacala.

9:50-1 Using 454 Pyrosequencing to Survey the Microbiota of the Glassy-Winged Sharpshooter (Homalodisca vitripennis). Daymon Hail, UT Tyler, Scot E. Dowd, Research & Testing Lab - Lubbock, TX, Isabelle Lauzière, and Blake Bextine, UT Tyler.

9:50-2 Effectiveness of Pan Trapping Freshwater Shoreline Insect Fauna. Frank J. Dirrigl, Jr. University of Texas-Pan American.


9:50-4 Parasitoids of Fall Armyworm Spodoptera frugiperda Smith in Michoacán, México. Fernando Bahena-Juárez, INIFAP-Michoacán; Edgardo Cortez-Mondaca, INIFAP-Sinaloa; and Rubén Sánchez-Martínez, INIFAP-Michoacán.

9:50-5 Mortality and Occlusion Bodies Production of Nucleopolyhedrovirus on Spodoptera frugiperda (Lepidoptera :Noctuidae) Larvae. Gabriel Gallegos Morales, and Claudio Ríos Velazco, Universidad Autónoma Agraria Antonio Narro.

10:00-1 Cotton IPM Principles and Practices. S. M. Greenberg, and J. J. Adamczyk, Jr. BIRU-SARC-ARS-USDA.

10:00-2 Blended Refuge versus Block Refuge: Efficacy in Production of ECB Larvae. Lawrent L. Buschman, Kansas State University; and Ankush Joshi, SW Res. Ext. Center.
Monday, 12 APRIL

Submitted Posters... cont.  

Miramar III Room

10:00-3 Genetic Variability among *Beauveria bassiana* Isolates and their Insecticidal Activity against *Periplaneta americana*. Gabriela Damas, Alberto Valadez-Lira, Ricardo A. Gomez-Flores, Diana Resendez-Perez, and Patricia Tamez-Guerra, Universidad Autónoma de Nuevo León.


10:10-2 Relating cotton lint and seed weights to feeding injury from *Creontiades signatus* (Hemiptera: Miridae) base on boll age, diameter and Degree-days. J. Scott Armstrong, J. J. Adamczyk, BIRU, USDA-ARS; Roy D. Parker, Texas AgriLife Extension; and Randy Coleman, BIRU, USDA-ARS.


10:10-5 Comparison in Phenoloxidase Production of Different Lepidoptera Insect Pest Instars. Alberto Valadez-Lira, Gabriela Damas, Paola Jalomo-Ortiz, Elizabeth Terrazas-Castelán, Grizelda Núñez-Mejía, Brenda Oppert, Ricardo A. Gomez-Flores, Cristina Rodriguez Padilla, Juan M. Alcocer-Gonzalez, and Patricia Tamez-Guerra, Universidad Autónoma de Nuevo León.
Monday, 12 APRIL

Submitted Posters… cont.

10:20-1 **Effects of Thiamethoxam and Imidacloprid Seed Treatments on Cotton Growth and *Aphis gossypii* (Homoptera: Aphididae).** Liping Zhang, and T.-X. Liu, Texas AgriLife Research.

10:20-2 **Tetranychus urticae Koch populational Fluctuation in Corn Fields in Comarca Lagunera.** Luis Patricio Guevara, Jeronimo Landeros Flores, Ernesto Cerna Chavez, Sergio Rodriguez Herrera, Universidad Autónoma Agraria Antonio Narro; and Maria Ochoa Fuentes, Universidad Autonoma de Aguascalientes.


10:20-4 **The Influence of Fire in a Mesquite Encroached Grassland Using Invertebrate Biomass as a Monitor of Change. La Influencia de Quemas en la Biomasa de Invertebrados de Praderas Invadidas por Mezquite.** Joy Lynn Newton, and Richard T. Kazmaier, West Texas A&M University.

10:20-5 **Efficacy of Foliar and Preventive Insecticides towards Thrips in the Texas High Plains.** Emilio Niño, and David Kerns, Texas AgriLife Extension.

10:30-1 **Eggs susceptibility of *Chrysoperla carnea* (Stephens) (Neuroptera: Chrysopidae) to Abamectin, Endosulfan and Profenofos insecticides.** Omar García Angel, Ernesto Cerna Chávez, Carlos Ail Catzim, Jeronimo Landeros Flores, Luis Alberto Aguirre Uribe, and Mariano Flores Davila, Universidad Autónoma Agraria Antonio Narro.

10:30-2 **Population Dynamics and Species of Thrips (Thysanoptera) Associated with Squash (*Cucurbita moschata var. chirimen*) in Nayarit, México.** Oswaldo García Martinez, Rita Dinora Valenzuela García, and Octavio Jhonathan Cambero, Universidad Autonoma Agraria Antonio Narro; Carlos Ruben Carvajal Cazola, and Agustin Robles Bermudez Universidad Autonoma de Nayarit; and Axea P. Retana Salazar, Universidad de Costa Rica.

10:30-3 **Population Dynamics of Thrips Associated with the Avocado Crop in Nayarit, México.** Oswaldo García Martinez, and Octavio Jhonathan Cambero Campos, Universidad Autonoma Agraria Antonio; Roberto Johansen Naime, Universidad Nacional Autonoma de México; and Axel P. Retana Salazar, Universidad de Costa Rica.

10:30-4 **Effect of Landscape Level Habitat Heterogeneity on the Abundance of *Lygus hesperus* in Cotton.** W. Owen McSpadden, Megha N. Parajulee, Stanley C. Carrol, and Ram B. Shrestha, Texas AgriLife Research.

10:30-5 **Cotton Entomology Research and Outreach in the Texas High Plains: A Historic Journey of the Texas A&M Lubbock Center.** Megha N. Parajulee, Stanley C. Carroll, and Ram B. Shrestha, Texas AgriLife Research.
Monday, 12 APRIL

Submitted Posters… cont.  Miramar III Room


10:40-3 Using Scanning Electron Microscopy with Energy Dispersive Spectroscopy to Identify Starch in Sorghum Grain Resistant to Maize Weevil (Coleoptera: Curculionidae). Michael W. Pendleton, and E. Ann Ellis, Texas A&M University; Gary C. Peterson, Texas AgriLife Research; and Bonnie B. Pendleton, West Texas A&M University.

10:40-4 Production of Phenoloxidase and Susceptibility of Periplaneta americana Cockroach Following Beauveria bassiana Infection. Gabriela Damas, Alberto Valadez-Lira, Ricardo Gomez-Flores, Cristina Rodríguez-Padilla, and Patricia Tamez-Guerra, Universidad Autónoma de Nuevo León.

10:40-5 Susceptibility of Plodia interpunctella to Bacillus thuringiensis and its Relation with Microbial Flora and Hemolin Expression. Edith Rubio-Cota, Universidad Autónoma de Nuevo León; Brenda Oppert, USDA-ARS, KS; María M. Iracheta-Cárdenas, Alberto Valadez-Lira, and Patricia Tamez-Guerra, Universidad Autónoma de Nuevo León.

11:00-1 Optimization of Indirect ELISA Protocol for the Detection of Marker Protein on Lygus hesperus. Ram B. Shrestha, and Megha N. Parajulee, Texas AgriLife Research.

11:00-2 Genetic Variability in Southern Chinch Bug (Blissus insularis) Populations Assessed using AFLP Analysis. Ambika Chandra, James A. Reinert, Jonathan LaMantia, James B. Pond, Texas AgriLife Research; and David R. Huff, Pennsylvania State University.

11:00-3 Control de Chapulines en Áreas Suburbanas de la Ciudad de México. Rodolfo Campos Bolaños, and Tulio Mendez Montiel, Universidad Autonoma Chapingo.

11:00-4 The Ecological Impacts of Beech Bark Disease on American Beech and Northern Hardwood Forests in Michigan. Saana Deichsel, and Ines Ibanez, University of Michigan.

### Monday, 12 APRIL

**Submitted Posters… cont.**

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<td>11:10-2</td>
<td>Immunosuppression Decreases Phenoloxidase Production in <em>Trichoplusia ni</em> (Hübner) (Lepidoptera:Noctuidae).</td>
<td>Alberto Valadez, Patricia Tamez, Universidad Autónoma de Nuevo León; and Jorge Ibarra, CINVESTAV-IPN; Cristina Rodríguez-Padilla, and Juan M. Alcocer-Gonzalez, Universidad Autónoma de Nuevo León.</td>
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<td>11:10-5</td>
<td>Comparison of Biological Parameters of <em>Trichogramma pretiosum</em> and <em>T. brassicae</em> Using Cabbage Looper and Diamondback Moth Eggs as Hosts.</td>
<td>Yongmei Zhang, and T.-X. Liu, Texas AgriLife Research.</td>
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<td>11:20-4</td>
<td>Contact and Residual Efficacy of Novel Insecticides to Sugarcane Borer, <em>Diatraea saccharalis</em> (F.) in Grain Sorghum.</td>
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<td>14:30</td>
<td>Round Table: Mass Rearing of Beneficial Insects</td>
<td>Sasha Greenberg and Jesus Vargas Camplis.</td>
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<td>17:30</td>
<td>Linnaean Games Final Round</td>
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Tuesday, 13 APRIL

Symposium: Trends in *Helicoverpa zea* Population Dynamics, Migration and IPM in North America  
Miramar I Room


9:00  **Introduction**: Bill Hutchison and Carlos Blanco

9:05  **Current trends in *H. zea* Population Dynamics Within a Changing Landscape: U.S. and México**. Jaime Molina-Ochoa, Univ. of Colima, Randall Luttrell, Univ. of Arkansas, William D. Hutchison, Univ. of Minnesota, and Carlos Blanco, USDA-APHIS.


9:45  **Long Distance Migration in *H. zea*: What We Know and Need to Know**. John K. Westbrook and Juan Lopez, USDA-ARS.


10:25  **Host Plant Utilization of *Helicoverpa zea* Across the Southern United States**. Ryan Jackson, USDA-ARS.

10:45  **Evidence for *H. zea* Population Decline Relative to Bt Cotton Use in the Southern U.S.** John Adamczyk, USDA-ARS.

11:05  **Impact of Cry1Ab and Stacked Bt Corn Events on *H. zea*: Northern U.S. Perspective**. Galen Dively, Univ. of Maryland.

11:25  **Break**

11:45  "**Field-Evolved Resistance to Bt Cotton in *Helicoverpa zea***". Bruce Tabashnik, Univ. of Arizona.

12:05  **Bt Resistance in *H. zea*: From Biology to Monitoring**. William Moar, Monsanto.

12:25  **Population Dynamics of *Heliothis virescens* and *H. subflexa* in Relation to Variation in Their Sexual Communication**. Astrid Groot, Max Planck Institute, Germany.

12:45  **Back to the Future: Forecasting Potential Areawide Impact of Climate Change and Bt Crops on *H. zea***. William D. Hutchison, Amy Morey, Univ. of Minnesota, Robert Venette, U.S. Forest Service, Shi Chen, Shelby Fleischer, Penn. State Univ. and Nicholas Storer, Dow AgroSciences.
Symposium: From the Genome to the Field: Global Impacts of Insect Transmitted Plant Pathogens

Miramar II Room

Organizers and Moderators: Blake Bextine and Natalie Hummel

9:00  **Introduction to the Topic.** Blake Bextine, U of Texas at Tyler, Tyler, TX.

9:05  **LGU response to Invasive Species - How to Communicate With the Media and Regulatory Agencies.** Natalie Hummel, LSU, Baton Rouge, LA.

9:30  **Emerging Insect-Transmitted Plant Pathogens in México and Latin America.** Sergio Sanchez, Departamento de Parasitología, Universidad Autónoma Agraria Antonio Narro, Saltillo, Coahuila.

9:55  **Emerging Leafhopper-Transmitted Phytoplasma Diseases of Potato.** Joseph E. Munyaneza, USDA-ARS, Yakima Agricultural Research Laboratory, Wapato, WA.

10:20 **Review of an Emerging Hemipteran Cotton Pest as a Vector of Pathogens Affecting Cotton Fruit.** Jesus Esquivel, E. G. Medrano, and A. A. Bell, USDA, ARS, Areawide Pest Management Research Unit, College Station, TX.

10:45  **Break**

11:00  **Psyllid Genomics: The Beginning of the End.** Blake Bextine, U of Texas at Tyler, Tyler, TX and Wayne Hunter, USDA, Ft. Pierce, FL.

11:25  **Asian Citrus Psyllid and Greening Disease in Louisiana.** Natalie Hummel and Don Ferrin, LSU, Baton Rouge, LA.

12:00  **Psyllids as Vectors of Emerging Bacterial Diseases of Annual Crops.** Joseph E. Munyaneza, USDA-ARS, Yakima Agricultural Research Laboratory, Wapato, WA.

12:15  **Unraveling the first Xylella fastidiosa Genome from Texas.** Lisa Morano, University of Houston, Downtown, Houston, TX.

12:40  **Wheat Gene Expression is Differentially Induced by a Virulent Russian Wheat Aphid Biotype.** C. M. Smith, Jianye Meng, Sharon Starkey, Department of Entomology, Kansas State University, Manhattan, KS, and Xiang Liu, North Carolina State University, Raleigh, NC.

1:05  **Closing Remarks:** Blake Bextine
Tuesday, 13 APRIL

10-minute Oral Submitted Papers Session

Moderators: Manuel Campos and Alejandro A. Calixto

Biology/Ecology/Behavior:

9:00  Ant Predation on Saltcedar Leaf Beetle (*Diorhabda elongata*) Pupae. Manuel Campos, Allen E. Knutson, and Mark Muegge, Texas AgriLife Extension.

9:12  Sistema de Alerta para el Control de *Schistocerca piceifrons piceifrons* en México. Guadalupe Galindo Mendoza, Cristóbal Aldama Aguilera, Luis Olvera, Carlos Contreras Servín, SINAVEF – UASLP.


9:36  Larval Interactions Between *Phormia regina* and *Lucilia sericata* (Diptera: Calliphoridae). Christina L.M. Reid, and Sherah VanLaerhoven, University of Windsor.

Crop Protection:


10:00  Propuesta Metodológica para la Formación de las Regiones Epidemiológicas Fitosanitarias de México. Carlos Contreras Servín, Guadalupe Galindo Mendoza, and Victor Hugo Lopez Avazquez, SINAVEF – UASLP.


10:24  Production of Corn Borers for IRM in the Blended Refuge. Lawrent L. Buschman, Kansas State University; and Ankush Joshi SW Res. Ext. Center.


10:50  Break

11:05  Erradicación de la Palomilla del nopal *Cactoblastis cactorum* en Mexico. Rafael Zetina, SAGARPA, México.
Tuesday, 13 APRIL

10-minute Oral Submitted Papers Session… cont. Miramar IV Room

Biochemistry:

11:17 Molecular Characterization of Native Strains of Beauveria bassiana (Vuill.) and Evaluation of their Toxicity on Spodoptera frugiperda (J.E. Smith). Cipriano García Gutiérrez, CIIDIR-COFAA IPN; Ninfa María Rosas García, CBG- COFAA IPN; and Jorge Soto Alcalá, Instituto Tecnológico de Guasave.

Biological Control:

11:29 Is Introduced Whitefly Parasitoid Eretmocerus hayati Performing Better than Native E. mundus in Australia?. Juan A. Villanueva-Jimenez, Colegio de Postgraduados; Paul J. De Barro, and Nancy A. Schellhorn CSIRO.


Urban/Structural:


9:00 – 13:00 POSTER VIEWING: SAME SCHEDULE AS MONDAY 12, until 13:00

19:00 Beach Party / Awards Presentations
Wednesday, 14 APRIL

7:00 – 9:00  Final Business Meeting

Symposium:  
New Insights on Bacillus thuringiensis Research: 2010


9:00  Introduction: Patricia Tamez-Guerra, UANL-México.

9:05  Current status of B. thuringiensis susceptibility in Key Corn Pests. Blair Siegfried, Univ. of Nebraska-Lincoln.

9:25  Susceptibility to B. thuringiensis and Fitness Implications of Fall Armyworm Populations from Three Regions: Advances in Microsatellite Construction. Carlos Blanco, USDA-APHIS; Juan Luis Jurat-Fuentes, Univ. of Tennessee; Maribel Portilla, Renée Arias, and Yu Cheng Zhu USDA-ARS; Paulina Vega-Aquino, and Antonio P. Terán-Vargas, INIFAP; and ausencio Azuara-Domínguez, Colegio de Postgraduados.

9:45  Monitoring of Bt Resistance from Field-Collected Heliothine Populations in México. Concepción Rodríguez, Colegio de Postgraduados, México and Sotero Aguilar-Medel Univ. A. del Estado de México.

10:05  CryMod toxins. Alejandra Bravo, UNAM, México.

10:25  Break

10:45  Cry Mode of Action. Mario Soberón, UNAM, México.

11:05  Delaying Insect Resistance to Transgenic Crops. Michael Caprio, Mississippi State Univ.


12:25  Discussion over Lunch Break
Wednesday, 14 APRIL

Symposium: Current Status of PBW Eradication in Southwest U.S. and México: Harmonizing a Binational Program

13:25 Introduction: Jeff Fabrick (USDA-ARS)

13:45 Fifteen Years of Bt Cotton Use in Arizona: Benefits and New Challenges. Steve Naranjo (USDA-ARS)


14:45 Adoption of Bt Crops in Colombia and Honduras. Miguel S. Serrano, Monsanto, Central America.

15:05 New Insights Into the Genetics and Molecular Mechanisms of Pink Bollworm Resistance to Cry toxins. Jeff Fabrick, USDA-ARS.

15:25 Monitoring of the Pink Bollworm Susceptibility to the Bt endotoxin Cry1Ac in México. Urbano Nava-Camberos, U. Juárez del Estado de Durango.

15:55 Current Status of PBW Resistance in India. W. Moar, Monsanto.

16:05 Discussion/ Concluding remarks
Wednesday, 14 APRIL

Symposium: Advances in Pecan Entomology in the SW-US and México

Organizer and Moderator: Manuel Campos

9:00  Introduction to the Topic. Manuel Campos, Texas AgriLife Extension, Dallas, TX.

9:05  Mating Disruption of Pecan Nut Casebearer. Interrupción del Apareamiento del Barrenador de la Nuez. Mark Muegge, Texas AgriLife Extension, Fort Stockton, TX and Allen E. Knutson, Texas AgriLife Extension, Dallas, TX.

9:30  PNCForecast: An On-line Model for Predicting Pecan Nut Casebearer Oviposition in Pecan. Allen E. Knutson, Texas AgriLife Extension, Dallas, TX and Mark Muegge, Texas AgriLife Extension, Fort Stockton, TX.

9:55  Highlights of the Pecan ipmPIPE Program: Harnessing Information Technology (IT) for Use in Production Agriculture of Pecans. Alejandro A. Calixto, Marvin K. Harris, Andrew Birt, Neal Lee, Bill Ree, Susan Dean, Allen Dean and Luis Calixto. Department of Entomology, Texas A&M University, College Station, TX.

10:20  Rational Use of Insecticides to Control of PNC Acrobasis nuxvorella and HSW Cydia caryana in Pecan Nut in México. Uso racional de insecticidas para el control de GBN Acrobasis nuxvorella and GBR Cydia caryana en Nogal Pecanero en México. Servando Quiñones, Dow AgroSciences, México.

10:45  Break

11:00  Potential Neonicotinoid Resistance of Blackmargined Aphid, Monellia caryella (Fitch), in Western Pecan Orchards. Bryan Fontes, Ray Pierce, and Brad Lewis, New México State University, Entomology, Plant Pathology, and Weed Science, Las Cruces, NM.


11:50  Pecan Management Short Course – 15 Years of Success and Transitioning Information Delivery to a New Generation. Phil Mulder, Eric T. Stafne, S. Kelly Seuhs, B. Dean McCraw and Becky L. Carroll. Dept. of Entomology and Plant Pathology. Oklahoma State University, Stillwater, OK.

12:15  Closing Remarks: Manuel Campos
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SOUTHWESTERN BRANCH

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## PRESIDENTS AND CHAIRPERSONS OF SWB-ESA

<table>
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<tr>
<th>President</th>
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<th>Location</th>
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<td>Carlos A. Blanco</td>
<td>2009-10</td>
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<tr>
<td>H.G. Johnston*</td>
<td>1950-51</td>
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