



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



Zopherus chilensis

11 – 14 APRIL 2010

HILTON HOTEL

CANCÚN, QUINTANA ROO, MÉXICO



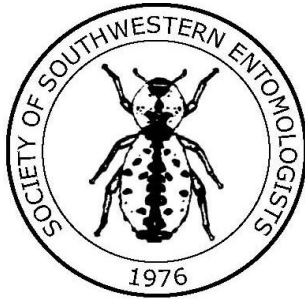
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The Entomological Society of America (ESA) is the largest organization in the world serving the professional and scientific needs of entomologists and people in related disciplines. Founded in 1889, ESA today has more than 6,000 members affiliated 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>.



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>.



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>.



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>.

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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:

Registration	On-site
SWB or SSE Member	\$165
Student SWB or SSE Member	\$60
Spouse/Guest	\$50
E.S.A Honorary/Emeritus Member	<i>Gratis</i>
Non-member	\$175

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

Miramar II Room

- 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

Miramar II Room

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.
- 9:24 **Development and Infestation Characteristics of Yellow Sugarcane Aphid (Hemiptera: Aphididae) on Sorghum.** Zachary Eder and Bonnie B. Pendleton, West Texas A&M University.
- 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.
- 9:48 **Impacts of Disturbance on Soil-dwelling Microarthropod Communities in Conventionally Tilled and No-till Winter Wheat.** Trisha R. Dubie and Carmen M. Greenwood, Oklahoma State University.
- 10:00 **Phenology of the Beet Leafhopper, *Neoliturus* (=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.
- 11:28 **Incidence of *Xylella fastidiosa* in Oklahoma and Survey of Potential Insect Vectors.** Lisa Overall and Eric Rebek, Oklahoma State 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.
- 11:52 **Costs of Reproduction in Male Mexican Fruit Fly: Diet Influences Longevity Tradeoffs Due to Access and Timing of Mating.** James Flint Harwood, Jane-Ling Wang, Hans-Georg Müller, and Amy E. Morice, University of California, Davis.
- 12:04 **Progress in the Taxonomic Revision and Phylogenetic Estimation of the Entire-eyed Owlflies (Neuroptera: Ascalaphidae: Haplogleniine).** Joshua R. Jones, Texas A&M University.

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 Sánchez, Universidad Autónoma Agraria Antonio Narro.
- 9:10-1 **Virulence of Entomopathogenic Nematodes (*Heterorhabditis*) in Three Substrates and Dispersal under Laboratory Conditions.** Yuliana Anzures-Hernández, Florencio Espinola Alvarado, and Sergio R. Sánchez-Peña, 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.
- 9:10-3 **Observations on *Stethorus* spp. (Coleoptera: Coccinellidae), Predators of Spider Mites (Acari: Tetranychidae).** Héctor Favián Cruz-Lopez 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 McCornack, 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.
- 9:20-4 **Artificial Production of the Grasshopper Pathogen *Entomophaga calopteni* (*Entomophaga grylli* Pathotype 2) in Live Hosts.** Reyna I. Torres-Acosta and Sergio R. Sanchez-Peña, Universidad Autónoma Agraria Antonio Narro.

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* (Homoptera: Aphididae) 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 Postgraduados; 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. Bradley Vinson, Texas A&M University.

Monday, 12 APRIL

Submitted Posters

Miramar III Room

- 9:40-1 **Resource Discovery and Dominance as a Tool for Management of RIFA and Preservation of Resident Ants: the "Bait and Switch" Approach.** Alejandro Calixto, Bart Drees, Molly Keck and Natalie Cervantes, Texas AgriLife Extension.
- 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.
- 9:40-3 **Population Dynamics and Intercrop Movement Behavior of Convergent Lady Beetle in Cotton-Alfalfa Agroecosystem.** Anup Bastola, Megha N. Parajulee, and Ram B. Shrestha, Texas AgriLife Research.
- 9:40-4 **Enhanced Activity of an Emulsion Formulation of *Beauveria bassiana* Bals (Vuillemin).** Elizabeth Terrazas, Gabriela Damas, Ricardo Gomez-Flores, Fernando Tamayo-Mejía, and Patricia Tamez-Guerra. Universidad Autónoma de Nuevo León.
- 9:40-5 **The Effect of Diet Quality on the Decorated Cricket; *Grylloides sigillatus*. Are the Males' Wings a Reliable Trait?.** Hernandez Joyce, and Raúl Cueva del Castillo. UNAM FES Iztacala.
- 9:50-1 **Using 454 Pyrosenquencing 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.
- 9:50-3 **Dynamic Population of *Diaphorina citri* Kuwayama in Citrus Species in Culiacan Valley, Sinaloa, México.** Edgardo Cortez-Mondaca, Jesús Pérez-Márquez, Heidi M. Medina-Montenegro, and Victor M. González-Calderón, INIFAP-Sinaloa.
- 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.
- 10:00-4 **Presence of Phytophagous and Entomophagous Insects in Agroecosystems with Mango var. “Manila”.** Héctor Cabrera-Mireles, and Felix D. Murillo-Cuevas, INIFAP-Veracruz; Juan A. Villanueva-Jimenez, Colegio de Postgraduados-Veracruz; and Dora A. Ortega-Zaleta, INIFAP-Veracruz.
- 10:00-5 ***Tetranychus urticae* Koch Population Density in Corn Creole.** Jeronimo Landeros Flores, Luis Patricio Guevara Acevedo, Ernesto Cerna Chavez, and Sergio Rodriguez Herrera, Universidad Autónoma Agraria Antonio Narro; Yisa Maria Ochoa Fuentes, Universidad Autónoma de Aguascalientes; Victor Sánchez Valdez, and Luis alberto Aguirre Uribe, Universidad Autónoma Agraria Antonio Narro.
- 10:10-1 **Evaluation of Control Strategies *Triatoma dimidiata* (LATREILLE, 1811) HEMIPTERA: REDUVIIDAE) Vector of Chagas in Yucatán, México.** Jhibran Ferral, INIFAP-Quintana Roo; Benigno Gómez, Javier Valle, and Laura Huicochea, El Colegio de la Frontera Sur, ECOSUR.
- 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.
- 10:10-3 **Development of a Binomial Sampling Plan to Estimate Thrips Populations in Cotton to Aid in IPM Decision Making.** David Kerns, Mark Muegge, Texas AgriLife Extension Service; Megha Parajulee, Texas AgriLife Research.
- 10:10-4 **The Role of Pre- and Post-imaginal Experience on Host Preference in Generalized and Specialized Population of *Liriomyza trifolii* (Diptera: Agromyzidae).** Kun Guo, and Tongxian Liu, Texas AgriLife Research.
- 10:10-5 **Comparison in Phenoloxidase Production of Different Lepidoptera Insect Pest Instars.** Alberto Valadez-Lira, Gabriela Damas, Paola Jalomo-Ortiz, Elizabeth Terrazas-Castelán, Gricelda 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.

Miramar III Room

- 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.
- 10:20-3 **Survey for the Emerald Ash Borer and the Light Brown Apple Moth in Texas.** Manuel Campos, Allen E. Knutson, and Charles Helpert, Texas AgriLife Extension.
- 10:20-4 **The Influence of Fire in a Mesquite Encroached Grassland Using Invertebrate Biomass as a Monitor of Change. La Influencia de Quemadas en la Biomasa de Invertebrados de Praderas Invasadas 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. *chirimén*) in Nayarit, México.** Oswaldo Garcia 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 Martínez, 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

- 10:40-1 **Evaluation of ARINIX® Permethrin Impregnated Nylon Plastic Strips in Preventing Fire Ant Invasion in RainBird Par + ES Irrigation Boxes at Bear Creek Golf World, Houston, Texas.** Paul R. Nester, Anthony Camerino, Bastiaan M. Drees, and Alejandro A. Calixto, Texas AgriLife Extension.
- 10:40-2 **Parasitoids and Pathogens of *Spodoptera frugiperda*, *S. exigua*, *Heliothis virescens* and *Pseudoplusia includens* in the South of Tamaulipas, México.** Paulina Vega-Aquino, Antonio P. Terán Vargas, INIFAP-Tamaulipas, and Sergio R. Sanchez-Peña, Universidad Autónoma Agraria Antonio Narro.
- 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.
- 11:00-5 **Effects of Constant Temperatures on the Development of *Liposcelis rufa* Broadhead (Psocoptera: Liposcelididae).** Sandipa G. Gautam, George P. Opit, Kristopher L. Giles, and Brian Adam, Oklahoma State University.

Monday, 12 APRIL

Submitted Posters... cont.

Miramar III Room

- 11:10-1 ***Lygus hesperus* Injury to Maturing Bolls: Effects on Quality and Quantity of Cotton Yield.** Stanley C. Carroll, Megha N. Parajulee, Mahendra B. Adhikari, and Ram B. Shrestha, Texas AgriLife Research.
- 11:10-2 **Immunosuppression Decreases Phenoloxidase Production in *Trichoplusia ni* (Hübner) (Lepidoptera:Noctuidae).** 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.
- 11:10-3 **Populational Dynamics of *Tetranychus urticae* (Koch) and *Aculus schlechtendali* (Nalepa) (Acari: Tetranychidae: Eriophidae) in Apple Orchards of Artega, Coahuila, México.** Víctor Manuel Sánchez Valdez, Milton H. Pérez, Ernesto Cerna, Jorge Corrales, Jerónimo Landeros, and Luis Alberto Aguirre, Universidad Autónoma Agraria Antonio Narro, Saltillo, Coahuila.
- 11:10-4 **A Preliminary Survey of the Mosquitoes of the Lower Rio Grande Valley.** Christopher Vitek, University of Texas – Pan American.
- 11:10-5 **Comparison of Biological Parameters of *Trichogramma pretiosum* and *T. brassicae* Using Cabbage Looper and Diamondback Moth Eggs as Hosts.** Yongmei Zhang, and T.-X. Liu, Texas AgriLife Research.
- 11:20-1 **Evaluation of Winter Type *Brassica napus* L. Accessions for Resistance to Turnip Aphids (*Lipaphis erysimi* Kalt.).** Ali. A. Zarrabi, and Kris L. Giles, Oklahoma State University; and Michael J. Stamm, Kansa State University.
- 11:20-2 **Eastern Red Cedar (*Juniperusvirginiana*) Litter as a Resource for the Asian Tiger Mosquito, *Aedes albopictus* Skuse.** Ali A Zarrabi, and Michael H Reiskind, Oklahoma State University.
- 11:20-3 **Population Growth of the Psocid *Liposcelis pearmani* Lienhard (Psocoptera: Liposcelididae) at Constant Temperatures and Relative Humidities.** Boubakary A. Aminatou, George P. Opit, Justin Talley, and Carol L. Jones, Oklahoma State University.
- 11:20-4 **Contact and Residual Efficacy of Novel Insecticides to Sugarcane Borer, *Diatraea saccharalis* (F.) in Grain Sorghum.**
- 11:20-5 **Determination of Insecticide Tolerance in Two Populations of Potato Psyllid *Bactericera cockerelli* (Sulc) (Hemiptera: Triozidae).** Omar García, Ernesto Cerna, Carlos Ail, Yisa Ochoa, Mohammad H. Badii, Luis P. Guevara, and Omegar Hernandez, Universidad Autonoma Agraria Antonio Narro.

14:30 **Round Table: Mass Rearing of Beneficial Insects**

Miramar II Room

Organizers and Moderators: Sasha Greenberg and Jesus Vargas Camplis.

17:30 **Linnaean Games Final Round**

Miramar II Room

19:30 Student Mixer

Pool Area

Tuesday, 13 APRIL

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

Miramar I Room

Organizers and Moderators: C. Blanco, W.D. Hutchison, R. Leonard, P. Tamez-Guerra and J. Fabrick.

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.

9:25 **Development of Heliothines under NW Mississippi Environment: What Does Not Make Sense?** Gerardo Hernández (CINVESTAV, México), Carlos Blanco (USDA-APHIS) & Larry Adams (USDA-ARS).

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

10:05 **Trends in *H. zea* Pyrethroid Resistance and Factors Affecting *H. zea* IPM in Southern U.S. crops.** Roger Leonard, Louisiana State Univ., Fred Musser, Mississippi State Univ., D. Ames Herbert, Virginia Tech, and Patricia Pietrantonio, Texas A&M.

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.

13:05 Discussion over lunch

Tuesday, 13 APRIL

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.
- 12:50 **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

Miramar IV Room

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 Servin, SINAVEF – UASLP.
- 9:24 **The use of Black Soldier Flies *Hermetia illucens* (Diptera: Stratiomyidae) as an Agent for Waste Management.** Trinh Nguyen, and Sherah Vanlaerhoven, University of Windsor.
- 9:36 **Larval Interactions Between *Phormia regina* and *Lucilia sericata* (Diptera: Calliphoridae).** Christina L.M. Reid, and Sherah VanLaerhoven, University of Windsor.

Crop Protection:

- 9:48 **Sistema Nacional de Vigilancia Epidemiológica Fitosanitaria.** Cristóbal Aldama Aguilera, Guadalupe Galindo Mendoza, Luis Olvera, and Carlos Contreras Servín, SINAVEF – UASLP.
- 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.
- 10:12 **Epidemiología: Mapas de Riesgo. Epidemiology: Risk Maps.** Luis Olvera Vargas, Guadalupe Galindo Mendoza, Cristóbal Aldama, and Marcos Algara Siller, 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.
- 10:36 **New Rice IPM Tools.** M.O. Way, M.S. Nuñez, and R. A. Pearson, Texas AgriLife Research and Extension.
- 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.
- 11:41 **A New Invasive Stink Bug, *Bagrada hilaris*, Management in Southwestern Vegetable crops.** Eric T. Natwick, Donna Henderson, and Surendra Dara, University of California.

Urban/Structural:

- 11:53 **The Development of Biotypes of the Southern Chinch Bug.** James A. Reinert, Carlos Campos, and Ambika Chandra, Texas A&M AgriLife Research.
- 12:08 **Evaluation of *Scirtothrips dorsalis* Management Strategies.** Scott Ludwig, Paul Nester, Anthony Camerino, and Carol Brouwer, Texas AgriLife Extension.

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**

Miramar II Room

Symposium:

New Insights on *Bacillus thuringiensis* Research: 2010

Miramar II Room

Organizers and Moderators: C. Blanco, W.D. Hutchison, R. Leonard, P. Tamez-Guerra & J. Fabrick

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.

11:25 **Optimum AcreMax 2: A Blended Refuge Concept for Lepidopteran Pests of Maize.** Marlin E. Rice, Pioneer Hi-Bred International.

11:45 **A review of Vip3A Mode of Action and Effects on Cry Resistant Colonies.** Ryan W. Kurtz, Syngenta Biotechnology, Inc.

12:05 **Durability of Cry1F for Lepidopteran-Protected Bt Crops: Past, Present, and Future.** Nicholas Storer, Dow AgroSciences.

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**

Miramar II Room

- 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)
- 14:05 **"The Pink Bollworm Eradication Program in Arizona".** Robert Staten, USDA-APHIS, Ret.; Larry Antilla, Arizona Cotton Research and Protection Council, Ret.; Bruce Tabashnik, Univ. of Arizona; and Don Parker, National Cotton Council of America.
- 14:25 **Current Status of PBW Eradication in México: Harmonizing a Binational Program.** Juan Carlos Ramírez-Sahagón, SAGARPA-SENASICA, México.
- 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**

Miramar I Room

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.
- 11:25 **Acaros Fitófagos Asociados al Nogal Pecanero (*Carya illinoensis* Koch). Phytophagous Mites Associated to Pecan trees.** Benito Reséndiz, Universidad Autónoma Chapingo, Texcoco, México.
- 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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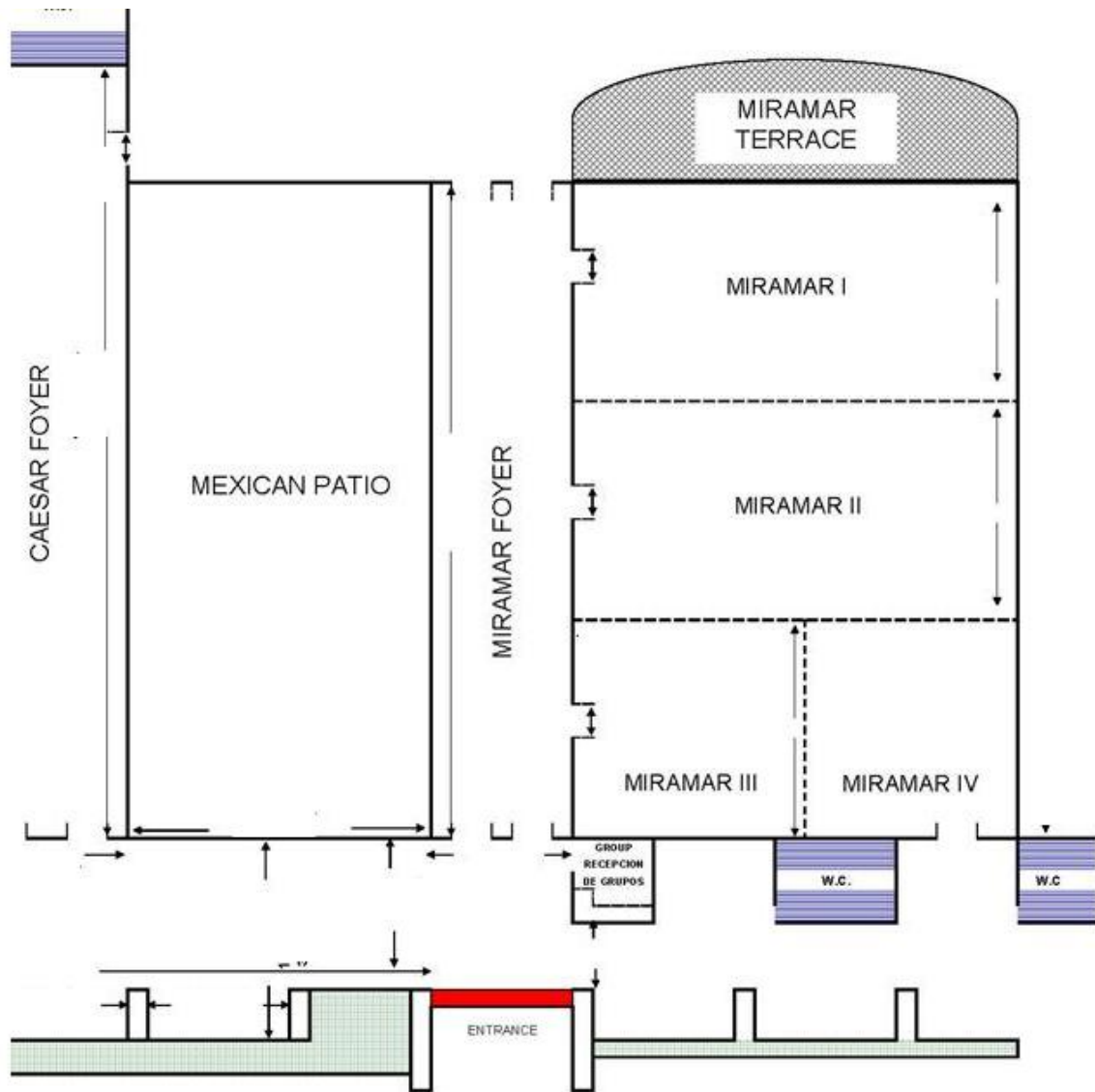
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PRESIDENTS AND CHAIRPERSONS OF SWB-ESA

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

* Southwestern Branch, American Association of Economic Entomologists



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