

61ST ANNUAL MEETING

of the **SOUTHWESTERN BRANCH** of the
ENTOMOLOGICAL SOCIETY OF AMERICA



and the **ANNUAL MEETING** of the

SOCIETY OF SOUTHWESTERN ENTOMOLOGISTS



25-28 FEBRUARY 2013

**RAMADA PALMS HOTEL
LAS CRUCES, NM**

SPONSORS

**We thank the following people and organizations for
their generous donations in support of Insect Expo
and other functions of the SWB-ESA meeting.**

PLATINUM

Trécé, Inc.

GOLD

BASF

AMVAC Chemical Corporation

OHP, Inc

SILVER

Nichino America, Inc.

PERCIVAL STUDENT AWARD

Percival Scientific, Inc

TABLE OF CONTENTS

	PAGE
SPONSORS	ii
PROGRAM SUMMARY	1
MEETING INFORMATION	7
OFFICERS AND COMMITTEES	9
PROGRAM:	14
MONDAY, 25 FEBRUARY	14
TUESDAY, 26 FEBRUARY	15
WEDNESDAY, 27 FEBRUARY	28
THURSDAY, 28 FEBRUARY	44
PRESIDENTS AND CHAIRMEN OF SWB-ESA	45
MAP OF HOTEL MEETING ROOMS	47
MAP TO OLD MESILLA SHOPS	48

PROGRAM SUMMARY

MONDAY, 25 FEBRUARY 2013

9:00 am – 2:00 pm	INSECT EXPO Room: NMSU Campus
10:00 am – 3:00 pm	Registration Location: San Juan
10:00 am – 12:00 pm	Southwestern Branch Executive Committee Room: Santa Fe
12:00 pm – 5:00 pm	Student Poster Set-up Room: Promenade
1:00 pm – 2:00 pm	Society of Southwestern Entomologists Executive Committee Room: Chamberino & Mesilla
2:00 pm – 3:00 pm	SOCIETY OF SOUTHWESTERN ENTOMOLOGISTS GENERAL MEMBERSHIP MEETING Room: Chamberino & Mesilla
2:00 pm – 5:00 pm	Presentation Preview Room Room: Santa Fe
3:00 pm – 5:00 pm	OPTIONAL SHOPPING @ OLD MESILLA Transportation on own: Car Pool!
	DINNER ON YOUR OWN

PROGRAM SUMMARY

TUESDAY, 26 FEBRUARY 2013

6:00 am – 8:00 am	Continental Breakfast Room: Atrium
7:00 am – 5:00 pm	Registration Room: San Juan
7:00 am – 5:00 pm	Presentation Preview Room Room: Santa Fe
7:00 am – 5:00 pm	Job Opportunity Room: Santa Fe
7:30 am – 5:00 pm	Entomological Foundation Silent Auction Room: Santa Fe
8:00 am – 4:00 pm	Student Poster Competition Room: Promenade
8:00 am – 9:25 am	PLENARY SESSION Room: Brazito
9:25 am – 9:45 am	BREAK Room: Promenade
9:45 am – 11:25 am	SYMPOSIUM I: Graduating? What to Expect from Future Employers Room: Brazito
11:25 am – 12:01 pm	Student Oral Competition (B.S.) Room: Brazito

PROGRAM SUMMARY

TUESDAY, 26 FEBRUARY 2013 (cont.)

12:00 pm – 1:00 pm	BOX LUNCH (provided) Room: Sabor Restaurant
1:00 pm – 3:12 pm	Student Oral Competition (M.S.) Room: Brazito
3:12 pm – 3:30 pm	BREAK Room: Promenade
3:30 pm – 4:06 pm	Student Oral Competition (Ph.D.) Room: Brazito
4:30 pm – 6:00 pm	Student Poster Takedown Room: Promenade
5:00 pm – 7:00 pm	LINNAEAN GAMES (Prelims) Room: Santo Tomas & Chamberino
6:00 pm – 7:00 pm	Regular Poster Set-up Room: Promenade
7:00 pm – 9:00 pm	STUDENT MIXER Room: Parrot Lounge

PROGRAM SUMMARY

WEDNESDAY, 27 FEBRUARY 2013

6:00 am – 8:00 am	Continental Breakfast Room: Atrium
7:00 am – 5:00 pm	Registration Room: San Juan
7:00 am – 5:00 pm	Presentation Preview Room Room: Santa Fe
7:00 am – 5:00 pm	Job Opportunity Room: Santa Fe
7:30 am – 5:00 pm	Entomological Foundation Silent Auction Room: Santa Fe
8:00 am – 5:00 pm	Regular Poster Session Room: Promenade
8:00 am – 11:48 pm	Regular Paper Session 1 (P-IE) Room: Santo Tomas & Chamberino
9:12 am – 10:30 am	Regular Paper Session 2 (Phys & Sys) Room: Mesilla
10:00 am – 10:30 am	BREAK Room: Promenade
10:30 am – 11:30 am	Regular Paper Session 3 (MUVE) Room: Mesilla

PROGRAM SUMMARY

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

12:00 pm – 1:00 pm	LUNCH (on your own)
12:55 pm – 5:00 pm	Symposium II: Blood Feeders: From Physiology to Vector Biology of Arthropods of Public Health Importance Room: San Miguel
1:00 pm – 4:40 pm	Symposium III: Biological Control of Saltcedar: Progress and Challenges in the Southwestern US Room: Santo Tomas & Chamberino
3:00 pm – 3:20 pm	BREAK Room: Promenade
5:00 pm – 6:30 pm	LINNAEAN GAMES (Final Round) Room: Santo Tomas & Chamberino
7:00 pm – 10:00 pm	BANQUET AND AWARDS Room: Brazito

PROGRAM SUMMARY

THURSDAY, 28 FEBRUARY 2013

7:00 am – 8:00 am **Breakfast (coffee and donuts)**
Room: Chamberino & Mesilla

8:00 am – 10:00 am **SWB-ESA FINAL BUSINESS MEETING**
Room: Chamberino & Mesilla

MEETING INFORMATION

REGISTRATION:

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

	<u>Full meeting</u>
Active ESA member	\$175
Student ESA member	\$90
Non-member	\$200
Spouse/Guest	\$50
Honorary/Emeritus	\$60

The full-meeting fee includes admission to all functions, including the banquet.

ESA CERTIFICATION BOARD INFORMATION:

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

SPONSORS:

We thank our sponsors for their generous support of activities such as the Insect Expo, student mixer, Linnaean Games, and breaks.

AUDIOVISUAL:

ONLY digital projectors with computers will be provided for oral presentations. Speakers must submit their presentations as Power Point files to the Presentation Preview Room one day before the session during which they will present.

PROGRAM SCHEDULE AND MODERATORS: Speakers are limited to the time indicated in the schedule, and moderators have the responsibility and authority to enforce restricting time to that in the schedule. Moderators sign in at the Presentation Preview Room before the session.

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.

STUDENT POSTER COMPETITION:

All students are to stand next to their posters during designated **BREAK** times on Tuesday, February 26.

ENTOMOLOGICAL SOCIETY OF AMERICA

SOUTHWESTERN BRANCH

2012-2013 OFFICERS AND COMMITTEES

Scott Bundy, President

cbundy@ad.nmsu.edu

Jesus Esquivel, Vice President

Jesus.esquivel@ars.usda.gov

Bob Davis, Secretary-Treasurer

robert.davis@basf.com

Allen Knutson, Past President

a-knutson@tamu.edu

Jerry Michels, Secretary-Treasurer Elect

Asychis@aol.com

David Ragsdale, ESA Governing Board Representative

dragsdale@tamu.edu

AUDIT COMMITTEE

Don Henne (Chair)

Ed Bynum

Gary Puterka

AWARDS AND HONORS COMMITTEE

Scott Armstrong (Chair)
Charles Allen
Mike Brewer
Jesus Esquivel
David Kattes
Sonja Swiger
Justin Talley
Dave Thompson
Paulina Vega

BOARD CERTIFIED ENTOMOLOGIST

Molly Keck, BCE

BRANCH ARCHIVIST

Gregory Cronholm

IN MEMORIAM COMMITTEE

Phillip G. Mulder, Jr. (Chair)
Edmond Bonjour
Jim Woolley

INSECT DETECTION COMMITTEE

Carol Sutherland (Chair)
Richard Grantham
Mark Muegge

INSECT EXPO COMMITTEE

Andrine Shufran (Chair)
Phillip G. Mulder, Jr.
Bonnie Pendleton
Scott Russell
Carol Sutherland

INSECT PHOTO SALON COMMITTEE

Lauren Ward (Chair)
Alex Arp
Jesus Esquivel
Trisha Dubie
Heather Hankins
Sarah McKamie
Chris Powell
Melise Taylor

LINNAEAN GAMES COMMITTEE

Scott Bundy (Chair)
Phillip G. Mulder, Jr., Gamesmaster
Blake Bextine
Jesus Esquivel
David Kattes
Mark Muegge
Bonnie Pendleton
Eric Rebek
Andrine Shufran
Jim Woolley

LOCAL ARRANGEMENTS COMMITTEE

Brad Lewis (Co-Chair)
Carol Sutherland (Co-Chair)

MEMBERSHIP COMMITTEE

Justin Talley (Chair)
Carlos Blanco
Manuel Campos
Rebecca Creamer
Jesus Esquivel
Juan Lopez
Sergio Sanchez-Pena
Bill Ree
Astri Wayadande

NOMINATIONS COMMITTEE

Allen Knutson (Chair)
Carlos Blanco
Scott Bundy
Tom Royer

PROGRAM COMMITTEE

Scott Ludwig (Co-Chair)
Sonja Swiger (Co-Chair)

PUBLIC INFORMATION COMMITTEE

Carol Sutherland (Chair)
Mark Muegge
Tom Royer

RESOLUTIONS COMMITTEE

Allen Knutson (Chair)
Stan Carroll
Robert Miller
Bill Ree

SITE SELECTION COMMITTEE

Bob Davis (Chair)
Scott Bundy
Jesus Esquivel
Allen Knutson
Jerry Michels
Tom Royer

STUDENT AFFAIRS COMMITTEE

Melise Schmidt (Chair)
Alex Arp
Trisha Dubie
Heather Hankins
Sarah McKamie
Chris Powell
Lauren Ward

**STUDENT RESEARCH PAPER AND
POSTER AWARDS COMMITTEE**

Bonnie Pendleton (Chair)
Scott Armstrong
Blake Bextine
Scott Bundy
Stanley Carroll
Jack Dillwith
Jerry Michels
Jane Pierce
Eric Rebek
Justin Talley

YOUTH SCIENCE COMMITTEE

Mo Way (Chair)
Wizzie Brown
Molly Keck
Roy Parker
Bonnie Pendleton
Jane Pierce

PROGRAM

MONDAY, 25 FEBRUARY 2013

- 9:00 am – 2:00 pm **INSECT EXPO**
Room: NMSU Campus
- 10:00 am – 3:00 pm **Registration**
Room: San Juan
- 10:00 am – 12:00 pm **Southwestern Branch Executive Committee**
Room: Santa Fe
- 12:00 pm – 5:00 pm **Student Poster Set-up**
Room: Promenade
- 1:00 pm – 2:00 pm **Society of Southwestern Entomologists
Executive Committee**
Room: Chamberino & Mesilla
- 2:00 pm – 3:00 pm **SOCIETY OF SOUTHWESTERN
ENTOMOLOGISTS GENERAL
MEMBERSHIP MEETING**
Room: Chamberino & Mesilla
- 2:00 pm – 5:00 pm **Presentation Preview Room**
Room: Santa Fe
- 3:00 pm – 5:00 pm **Optional SHOPPING @ OLD MESILLA**
Transportation on own: Car Pool!
- DINNER ON YOUR OWN**

PROGRAM

TUESDAY, 26 FEBRUARY 2013

- 6:00 am – 8:00 am **Continental Breakfast**
Room: Atrium
- 7:00 am – 5:00 pm **Registration**
Room: San Juan
- 7:00 am – 5:00 pm **Presentation Preview Room**
Room: Santa Fe
- 7:00 am – 5:00 pm **Job Opportunity**
Room: Santa Fe
- 7:30 am – 5:00 pm **Entomological Foundation Silent Auction**
Room: Santa Fe
-
- 8:00 am– 9:25 am **PLENARY SESSION:**
Room: Brazito
- 8:00 am – 8:10 am **Call to Order and Welcome**
Scott Bundy, SWB-ESA President
- 8:10 am – 8:15 am **Welcome from the Society of Southwestern
Entomologists**
Ed Bynum, SSWE President
- 8:15 am – 8:20 am **Welcome to Las Cruces**
Dave Thompson, Director, NM Agricultural
Experiment Station

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

8:20 am – 8:25 am **Welcome to NMSU**
Jerry Sims, EPPWS Department Head

8:25 am – 8:35 am **Presidential Update**
Rob Wiedenmann, ESA President

8:35 am – 8:45 am **ESA Update**
C. David Gammel, ESA Executive Director

8:45 am – 8:50 am **ESA Foundation Report**
Andrine Shufran, Board of Directors
Entomological Foundation

8:50 am – 8:55 am **Plant-Insect Ecosystems Update**
Bonnie Pendleton, ESA P-IE Section Past
President

8:55 am – 9:00 am **Board Certified Entomologists**
Molly Keck, BCE Representative

9:00 am – 9:10 am **ESA Governing Board Report**
David Ragsdale, Governing Board
Representative

9:10 am – 9:20 am **In Memoriam Report**
Phillip G. Mulder, Jr., Committee Chair

9:20 am – 9:25 am **Announcements**
Program Chairs:
Scott Ludwig & Sonja Swiger
Local Arrangements
Carol Sutherland & Brad Lewis

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

9:25 am – 9:45 am **BREAK**
Room: Promenade

9:45 am – 11:25 pm **SYMPOSIUM I: Graduating? What to
expect from future employers**
Room: Brazito
Moderators: Melise Taylor and Trisha Dubie

SM-1
9:45 am– 10:05 am Guidelines for Students for Impressing
Prospective Employers
Charles Allen
Texas AgriLife Extension Service

SM-2
10:05 am – 10:25 am Entomology in the USDA
Kerry Bryan
APHIS, USDA

SM-3
10:25 am– 10:45 am Appropriate Skill Sets for Employment
in Academia
Phillip G. Mulder, Jr.
Oklahoma State University

SM-4
10:45am – 11:05 am Entomology in Industry
Buddy Viramontes
Syngenta Chemicals

11:05 am – 11-25 am **Q & A**

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

11:25 am – 12:01 pm **STUDENT ORAL COMPETITION**
Room: Brazito
Moderator: Bonnie Pendleton

BACHELOR'S STUDENTS

SO-1
11:25 am – 11:37 am Effect of dairy cattle manure age on house fly (*Musca domestica*) and stable fly (*Stomoxys calcitrans*) development. **Billie Shine**, David Kattes, Barry Lambert and Janice Speshock, Tarleton State University

SO-2
11:37 am – 11:49 am Effect of *Solenopsis invicta* virus (SINV) infection on microbial communities of three *S. invicta* life stages. **Chris Powell** and Blake Bextine, University of Texas at Tyler

SO-3
11:49 am – 12:01 pm Using primary endosymbionts as a tool for constructing potato psyllid (*Bactericera cockerelli*) phylogenies. **Jessica Woodruff**, University of Texas at Tyler

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

1:00 pm – 4:06 pm **STUDENT ORAL COMPETITION**
Room: Brazito
Moderator: Bonnie Pendleton

MASTER'S STUDENTS

SO-4
1:00 pm – 1:12 pm Comparing relative abundance measures of short-horned grasshoppers (Orthoptera: Acrididae) between two sampling methods across a western Oklahoma grassland habitat gradient. **Kenneth Masloski**, Oklahoma State University, Michael Reiskind, North Carolina State University, and Carmen Greenwood, Oklahoma State University

SO-5
1:12 pm – 1:24 pm Regional differences in primary and secondary bacterial symbionts of the potato psyllid (*Bactericera cockerelli*). **Alex Arp** and Blake Bextine, University of Texas at Tyler

SO-6
1:24 pm – 1:36 pm The effects of an urban heat island on the population performance and larval development of the Asian Tiger Mosquito (*Aedes albopictus*). **Tyler Benjamin Ward** and Justin Talley, Oklahoma State University, and Michael Reiskind, North Carolina State University

SO-7
1:36 pm – 1:48 pm Development of DNA primers for phylogenetic designation of the *Diorhabda* (Coleoptera: Chrysomelidae) species complex. **Erin Jones**, West Texas A&M University

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

- SO-8
1:48 pm – 2:00 pm
Large scale propagation of *Homalodisca coagulata* virus-01 glassy-winged sharpshooter (*Homalodisca vitripennis*) tissue cell culture. **Anna Biesbrock**, University of Texas at Tyler, Wayne Hunter, U.S. Horticultural Research Service USDA, Blake Bextine, University of Texas at Tyler
- SO-9
2:00 pm – 2:12 pm
Spatial and temporal variation in distribution and abundance of spinose ear ticks (*Otobius megnini*) within animal shelters at Fossil Rim Wildlife Center. **Callie Price**, David Kattes, Chris Higgins, Kristin Herrmann and Thomas Schwertner, Tarleton State University
- SO-10
2:12 pm – 2:24 pm
Impacts of grazing (Cattle vs. Bison) and controlled burning on entomopathogenic nematode (EPN) prevalence in the Tallgrass Prairie Preserve in Oklahoma. Mackenzie Jochim, **Kyle Risser** and Carmen Greenwood, Oklahoma State University
- SO-11
2:24 pm – 2:36 pm
Identification of bacterial endosymbionts in the beet leafhopper (*Circulifer tenellus*). **Ben Travelstead** and Rebecca Creamer, New Mexico State University
- SO-12
2:36 pm – 2:48 pm
Spatial and temporal distribution of spinose ear ticks, *Otobius megnini*, and other ticks at Fossil Rim Wildlife Center. **Jacqueline Glass**, Thomas Schwertner, David Kattes and Barry Lambert, Tarleton State University

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

- SO-13
2:48 pm – 3:00 pm
Life history of laboratory reared *Zelus tetracanthus* (Hemiptera: Reduviidae). **Beth Ferguson**, Oklahoma State University
- SO-14
3:00 pm – 3:12 pm
Glandless cotton in New Mexico: Impact of nitrogen on gossypol associated resistance to cotton bollworm and beet armyworm. **Drew Garnett**, Jane Breen Pierce and Patricia Yates Monk, New Mexico State University
- 3:12 pm – 3:30 pm
BREAK
Room: Promenade
- PH.D. STUDENTS**
- SO-15
3:30 pm – 3:42 pm
Insect activity associated with composted livestock mortalities. **Trisha Dubie**, Oklahoma State University
- SO-16
3:42 pm – 3:54 pm
On the large North American whirligig beetles: a synopsis of the species of *Dineutus* MacLeay in North America. **Grey Gustafson**, University of New Mexico
- SO-17
3:54 pm – 4:06 pm
Blow flies are better vectors of *Escherichia coli* O157:H7 and *Salmonella enteric* than house flies. **Rebecca Pace**, Justin Talley and Astri Wayadande, Oklahoma State University

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

8:00 am – 4:00 pm **STUDENT POSTER COMPETITION**
Room: Promenade

BACHELOR'S STUDENTS

- SP-1 Revision of the Neotropical burrowing water beetle genus *Liocanthyrus* Guignot, 1057 (Coleoptera: Noteridae) with the description of new species. **Stephen Baca**, Grey Gustafson and Kelly Miller, University of New Mexico
- SP-2 Computational prediction of miRNA targets in three different Asian citrus psyllid (*Diaphorina citri*) life stages. **Juan Macias-Velasco**, University of Texas at Tyler
- SP-3 Molecular evolution of the salivary proteins Anophelin and ICHIT within members of the *Anopheles gambiae* complex. **Diana Rodriguez**, Texas A&M University
- SP-4 Evaluation of ant diversity and phenology at field sites for the biological control program for *Arundo donax* on the Rio Grande. **Aida Velez** and Kenneth Summy, Pan American University, John Goolsby, Cattle Fever Tick Research Lab, USDA-ARS, Weste Osbrink, USDA-ARS-SRRC, and Donald Thomas, Cattle Fever Tick Research Lab, USDA-ARS

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

- SP-5 Evaluation of *Arundo* scale crawler vigor, a biological agent of *Arundo donax*. **Joshua Villarreal** and Kenneth Summy, Pan American University, John Goolsby, Crystal Salinas and Ann Vacek, Cattle Fever Tick Research Lab, USDA-ARS
- SP-6 Green lacewings control soft scale pest contaminants in rearing systems used for biological control agents of *Arundo donax*. **Javier Guerra** and Kenneth Summy, Pan American University, and Adalbeto Perez de Leon, Knipling Bushland US Livestock Insects Research Laboratory, USDA-ARS
- SP-7 Evaluation of stress in *Arundo donax*, caused by feeding activities of *Arundo* scale, using short-range spectroradiometry and color infrared imagery. **Liliana Cantu** and Kenneth Summy, Pan American University, John Goolsby, Ann Vacek and Crystal Salinas, Cattle Fever Tick Research Lab, USDA-ARS
- SP-8 Supplemental boron micronutrient for *Arundo donax* to improve efficiency of *Arundo* scale mass rearing. **Corina Fuentes** and Kenneth Summy, Pan American University, John Goolsby and Ann Vacek, Cattle Fever Tick Research Lab USDA-ARS, and Adalberto Perez de Leon, Knipling Bushland US Livestock Insects Research Laboratory, USDA-ARS
- SP-9 Seasonal dynamics of flea beetles (Coleoptera: Chrysomelidae) on weed hosts in southern New Mexico. **Ashley Chatterton** and Scott Bundy, New Mexico State University

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

SP-10 Observations on rearing *Lasioptera donacis* (Cecidomyiidae), a potential biocontrol agent of Arundo cane. **Selina Ramirez** and Kenneth Summy, Pan American University, John Goolsby, Crystal Salinas and Donald Thomas, Cattle Fever Tick Research Lab, USDA-ARS

MASTER'S STUDENTS

SP-11 Habitat structure and interspecific competition effects on survivability of the American burying beetle (*Nicrophorus americanus* Olivier) in Eastern Oklahoma. **Thomas Ferrari**, Oklahoma State University

SP-12 Reviewing the subgenus *Opius* (*Bellopius*) Wharton (Hymenoptera: Braconidae). **Lauren Ward**, Robert Wharton and Thomas DeWitt, Texas A&M University

SP-13 CO₂ emissions from subterranean termites (Isoptera: Rhinotermitidae) feeding on sapwood and heartwood of five native Oklahoma trees. **Charles Konemann** and Brad Kard, Oklahoma State University

SP-14 Laboratory rearing and field release of a biocontrol agent for *R. repens* in New Mexico. **Joshua Brown**, Scott Bundy and David Thompson, New Mexico State University

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

SP-15 The biology of *Bagrada hilaris* in southern New Mexico. **Melise Taylor** and Scott Bundy, New Mexico State University

SP-16 Performance of native insect-based corn exposed to corn earworm (*Helicoverpa zea*) and fall armyworm (*Spodoptera frugiperda*). **Charlene Farias**, Mike Brewer and Gary Odvody, Texas A&M AgriLife Research, Darwin Anderson and Wenwei Xu, Texas A&M AgriLife Research and Extension

SP-17 Detection of Texas Phoenix Palm Decline (TPPD) in South Texas. **Julia Potocnjak** and Blake Bextine, University of Texas at Tyler, and Greta Schuster, Texas A&M University-Kingsville

SP-18 Assessment of the fitness cost of phosphine-resistance in *Rhyzopertha dominica* and *Tribolium castaneum* through population growth rate studies. **Nisha Shakya**, George Opit, Justin Talley and Carol Jones, Oklahoma State University

SP-19 Niche partitioning and community composition of ants (Hymenoptera: Formicidae) in Western Oklahoma grasslands. **Allison Giguere** and Carmen Greenwood, Oklahoma State University

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

PH.D. STUDENT

- SP-20 An efficient ribosomal RNA depletion protocol for metagenomic RNA-seq. **Phanidhar Kukutla**, Matthew Steritz and Jiannong Xu, New Mexico State University
- SP-21 Efficacy of propylene oxide against six species of stored-product insect eggs under vacuum. **Sandipa Gautam** and George Opit, Oklahoma State University, Steve Tebbets and Spencer Walse, USDA-ARS
- SP-22 Species identification of *Thermonectus* females (Coleoptera: Dytiscidae). **Rafael Braga** and Kelly Miller, University of New Mexico, and Nelson Ferreira Junior, Universidade Federal do Rio de Janeiro Cidade Universitaria
- SP-23 Aquaporins in the Malpighian tubules are essential for water transport in the Yellow Fever, *Aedes aegypti*. **Lisa Drake**, Stacy Rodriguez and Immo Hansen, New Mexico State University
- SP-24 The use of Paraquat in study of stress defense capacity in Mosquitoes. **Jinjin Jiang**, Dong Pei, Phanidhar Kukutla, Wanqin Yu and Jiannong Xu, New Mexico State University

PROGRAM

TUESDAY, 26 FEBRUARY 2013 (cont.)

- 4:30 pm – 6:00 pm **Student Poster Takedown**
Room: Promenade
- 5:00 pm – 7:00 pm **LINNAEAN GAMES (Preliminary Round)**
Room: Santo Tomas & Chamberino
- 6:00 pm – 7:00 pm **Regular Poster Set-up**
Room: Promenade
- 7:00 pm – 9:00 pm **STUDENT MIXER**
Room: Parrot Lounge

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013

- 6:00 am – 8:00 am **Breakfast**
Room: Atrium
- 7:00 am – 5:00 pm **Registration**
Room: San Juan
- 7:00 am – 5:00 pm **Presentation Preview Room**
Room: Santa Fe
- 7:00 am – 5:00 pm **Job Opportunity**
Room: Santa Fe
- 7:30 am – 5:00 pm **Entomological Foundation Silent Auction**
Room: Santa Fe

SUBMITTED PAPER SESSION:

- 8:00 am – 11:48 am **Regular Paper Session 1 (P-IE)**
Room: Santo Tomas & Chamberino
Moderator: Carlos Bogran and Eric Rebek
- O-1
8:00 am – 8:12 am The biology and management of pecan
phylloxera (*Phylloxera devastatrix* Pergande) on
pecan in Louisiana. **Michael Hall**, LSU
AgCenter
- O-2
8:12 am – 8:24 am Oviposition behavior in the gall midge
Lasioptera donacis, a potential biocontrol agent
of giant Arundo cane. **Donald Thomas**, John
Goolsby and Crystal Salinas, Cattle Fever Tick
Research Lab, USDA-ARS

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- O-3
8:24 am – 8:36 am Update on biological control of giant reed
(*Arundo donax*) in the Rio Grande Basin of Texas
and Mexico. **John Goolsby** and Donald Thomas,
Cattle Fever Tick Research Lab, USDA-ARS,
Adalberto Perez de Leon, Knipling Bushland US
Livestock Insects Research Laboratory,
USDA-ARS, Kenneth Summy, Pan American
University, and Alex Racelis, University of
Texas Pan-American
- O-4
8:36 am – 8:48 am Control of black cutworm, *Argotis ipsilon*
(Lepidoptera: Noctuidae), on bentgrass putting
greens with Acelepryn™. **Eric Rebek**,
Oklahoma State University
- O-5
8:48 am – 9:00 am Brown marmorated stink bug (*Halyomorpha*
halys) and two invasive drosophilids affecting
fruit crops in the mid-Atlantic region, and
prospects for the Southwest. **Douglas Pfeiffer**,
Virginia Polytechnic Institute and State
University
- O-6
9:00 am – 9:12 am Sequential sampling and decision support tool
for sorghum head worm. **Norman Elliott**, Plant
Science Research Laboratory, USDA-ARS,
Georges Backoulou, Kris Giles and Tom Royer,
Oklahoma State University, Brian McCornack,
University of Minnesota, Bonnie Pendleton,
West Texas A&M University, and Michael
Brewer, Texas A&M AgriLife Research

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- O-7
9:12 am – 9:24 am Celebrating 100 years of entomology in New Mexico. **Carol Sutherland**, New Mexico State University
- O-8
9:24 am – 9:36 am Impact of banks grass mite (*Oligonychus pratensis* Banks) infestations to conventional and drought tolerant corn under different irrigation levels. **Ed Bynum**, Texas A&M AgriLife Extension
- O-9
9:36 am – 9:48 am Summary of potato psyllid and zebra chip management research in south Texas. **Donald Henne**, Texas A&M AgriLife Research
- O-10
9:48 am – 10:00 am First detection of *Rhynchophorus palmarum* (Coleoptera: Curculionidae) in Texas and identification of associated organisms. **Raul Villanueva**, Texas A&M AgriLife Extension and Gabriela Esparza-Diaz, Texas A&M University
- 10:00 am – 10:30 am **BREAK**
Room: Promenade
- O-11
10:30 am – 10:42 am Physiological and yield response of soybean to feeding of redbanded stick bug (*Piezodorus guildinii*). **Suhas Vyavhare**, Texas A&M University, Mo Way, Texas A&M AgriLife Research, and Raul Medina, Texas A&M University

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- O-12
10:42 am – 10:54 am Challenges and opportunities in thrips management in Texas high plains cotton. **Ram Shrestha**, Stanley Carroll and Megha Parajulee, Texas A&M AgriLife Research
- O-13
10:54 am – 11:06 am The effects of commonly used miticides on the growth of honey bee (*Apis mellifera*) colonies. **Juliana Rangel**, Texas A&M University, David Tarpy and Jennifer Keller, North Carolina State University
- O-14
11:06 am – 11:18 am Nichino America Insecticides Update. **Scott Ludwig**, Nichino America, Inc
- O-15
11:18 am – 11:30 am What's up, Docs? Your Insect Detection Committee Report. **Carol Sutherland**, New Mexico State University, Richard Grantham, Oklahoma State University, and Mark Muegge, Texas A&M University

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

SUBMITTED PAPER SESSION:

- 9:12 am – 10:00 am **Regular Paper Session 2 (Phys & Sys)**
Room: Mesilla
Moderator: Scott Ludwig
- O-17
9:12 am – 9:24 am A taxonomic revision of the African
entire-eyed owlfly genus *Allocormodes*
(Ascalaphidae: Haplogleniinae). **Joshua Jones**,
Texas A&M University
- O-18
9:24 am – 9:36 am Patterns of internal bacterial flora in the
glassy-winged sharpshooter (*Homalodisca*
vitripennis) across Texas grape vineyards. **Elwyn**
Welch, University of Texas at Tyler
- O-19
9:36 am – 9:48 am The importance of encouraging service
learning and outreach. **Andrine Shufan**,
Oklahoma State University
- O-20
9:48 am – 10:00 am Summary of two years of monitoring
imidacloprid resistance in blackmargined pecan
aphids (*Monellia caryella* (Fitch)) in Texas. **Bill**
Ree, Texas A&M AgriLife Extension
- 10:00 am – 10:30 am **BREAK**
Room: Promenade

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

SUBMITTED PAPER SESSION:

- 10:30 am – 11:30 am **Regular Paper Session 3 (MUVE)**
Room: Mesilla
Moderator: Justin Talley
- O-21
10:30 am – 10:42 am Evaluating radioprotectors to improve x-ray
sterilization techniques for *Aedes aegypti* males.
Stacy Rodriguez, Ramaninder Kaur Brar, Lisa
Drake, David Price, Jacob Urquidi and Immo
Hansen, New Mexico State University
- O-22
10:42 am – 10:54 am Meeting emerging pest and insect issues
through education. **Molly Keck**, Texas A&M
AgriLife Extension
- O-23
10:54 am – 11:06 am Efficacy of Termidor HE high efficiency
termiteicide copack with Termidor HE technology
for control of subterranean termites. **Robert**
Davis, Kyle Jordan, Jason Meyers, Robert
Hickman, Freder Medina, Kenneth Brown and
Thomas Nishimura, BASF Corporation
- O-24
11:06 am – 11:18 am Pyric-herbivory to manage horn flies (Diptera:
Muscidae) on cattle. **Justin Talley**, Oklahoma
State University
- O-25
11:18 am – 11:30 am Three year evaluation of house fly (*Musca*
domestica) and horn fly (*Haematobia irritans*)
insecticidal efficacy in Texas. **Sonja L. Swiger**,
Texas A&M University

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- 12:55 pm – 5:00 pm **SYMPOSIUM II: Blood Feeders: From Physiology to Vector Biology of Arthropods of Public Health Importance**
Room: San Miguel
Moderator: Alvaro Romero and Immo Hansen
- 12:55 pm – 1:00 pm Introduction
Alvaro Romero
- SM-5
1:05 pm – 1:25 pm Bird-feeding ticks: Ecology, invasion biology, and implications for human health. **Sarah Hamer**, Texas A&M University, Tony Goldberg, University of Wisconsin-Madison, Uriel Kitron, Emory University, Jeff Brawn, University of Illinois, Travis Anderson, University of Wisconsin-Madison, Scott Loss, University of Illinois Urbana/Champaign, Edward Walker, Michigan State University, and Gabe Hamer, Texas A&M University
- SM-6
1:25 pm – 1:50 pm Lone Star ticks, white tailed deer and *Ehrlichia chaffeensis* infection: A natural model for the tick-host-pathogen triad. **Deborah Jaworski**, Oklahoma State University, Chuanmin Cheng, , Arathy Nair and Roman Ganta, Kansas State University

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- SM-7
1:50 pm – 2:15 pm Mining tick saliva proteins to understand tick feeding. **Albert Mulenga**, Texas A&M University
- SM-8
2:15 pm – 2:40 pm The impact of vector and host movement on the amplification of West Nile virus. **Gabriel Hamer**, Texas A&M University, Bethany Krebs, University of Illinois, Travis Anderson, University of Wisconsin-Madison, Uriel Kitron, Emory University, Edward Walker, Michigan State University, Jeffrey Brawn, University of Illinois, Christina Newman, University of Wisconsin, William Brown and Marilyn O'Hara, University of Illinois, and Tony Goldberg, University of Wisconsin-Madison
- SM-8
2:40 pm – 3:05 pm Viral determinants of vector competence variation among species and strains of flaviviruses in infectivity of *Aedes aegypti*. **Kathryn Hanley**, William Johnson, Maria Villa, Christy Andrade and David Price, New Mexico State University, and Bill Messer, Oregon Health & Sciences University
- 3:05 pm – 3:20 pm **BREAK**
Room: Promenade

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

SM-9
3:20 pm – 3:45 pm
Nutrient signaling and transport in the Yellow Fever mosquito *Aedes aegypti*. **Immo Hansen**, Lisa Drake, David Price and Stacy Rodriguez, New Mexico State University

SM-10
3:45 pm – 4:10 pm
Metagenomic characterization of gut ecosystem in the malaria mosquito *Anopheles gambiae*. **Jiannong Xu** and Phanidhar Kukutla, New Mexico State University, Hongmei Jiang, Northwestern University, Matthew Steritz, New Mexico State University, Thomas Gilbreath, University of California, Wanqin Yu, Jinjin Jiang and Celeste Alvarez, New Mexico State University, and Guiyun Yan, University of California

SM-11
4:10 pm – 4:35 pm
Collaborative research efforts in bed bugs at New Mexico State University. **Alvaro Romero**, Jiannong Xu and Phanidhar Kukutla, New Mexico State University

SM-12
4:35 pm – 5:00 pm
Chagas Disease in New Mexico? A survey for *Trypanosoma cruzi* in Triatominae in southeastern New Mexico. **Jane Pierce** and Stephen Hanson, New Mexico State University

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

1:00 pm – 4:40 pm
SYMPOSIUM III: Biological Control of Saltcedar: Progress and Challenges in the Southwestern US
Room: Santo Tomas & Chamberino
Moderator: James Tracy and Allen Knutson

SM-14
1:00 pm – 1:20 pm
Establishment, dispersal and impact of *Diorhabda* spp. on saltcedar in the Colorado and Brazos River watersheds. **Allen Knutson**, Texas A&M University, C. Jack DeLoach, Agricultural Research Service (retired), and James Tracy, Texas A&M University

SM-15
1:20 pm – 1:40 pm
Establishment and dispersal of tamarisk beetles (*Diorhabda* spp) on the Texas Rio Grande to control saltcedar (*Tamarix ramosissima/ chinensis*) and non-target impacts on athel (*Tamarix aphylla*). **Chris Ritzi**, Sul Ross State University, C. Jack DeLoach, Agricultural Research Service (retired), Mark Donet, USDA-NRCS (retired), Andrew Berezin, Wharton County Junior College, Ann Marie Hilscher, Sul Ross State University, Joe Sirotnak, Big Bend National Park, Tara Poloskey, Western Ecosystems Technology, and James Tracy, Texas A&M University

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- 1:00 pm – 4:40 pm **SYMPOSIUM III: Biological Control of Saltcedar: Progress and Challenges in the Southwestern US (cont.)**
Room: Santo Tomas & Chamberino
Moderator: James Tracy and Allen Knutson
- SM-16 Establishment, dispersal and impact of
1:40 pm – 2:00 pm *Diorhabda* spp. on the Pecos River.
Mark Muegge and Allen Knutson,
Texas A&M University
- SM-17 Establishment, recovery and spread of
2:00 pm – 2:20 pm two tamarisk beetles, *Diorhabda*
carinata and *Diorhabda elongate*, in the
Eastern Texas Panhandle, 2012. G. **Jerry**
Michels, Erin Jones and Rachel Lange,
Texas A&M AgriLife Research, John
Bible, Texas A&M University, and
Jackie Brazille, Texas A&M AgriLife
Research
- SM-18 Introduction of *Diorhabda* into
2:20 pm – 2:40 pm Oklahoma: A spasmodic process. **Tom**
Royer, Oklahoma State University

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- SM-19 Morphological evidence of field
2:40 pm – 3:00 pm hybridization among three species of
tamarisk beetles (*Diorhabda* spp.)
introduced into Texas for biological
control of saltcedar (*Tamarix* spp.).
James Tracy and Robert Coulson,
Texas A&M University, G. Jerry
Michels, Texas A&M AgriLife
Research, Allen Knutson, Texas A&M
University, Chris Ritzi and Ann Marie
Hilscher, Sul Ross State University,
Mark Muegge, Texas A&M University,
Tom Royer, Oklahoma State University,
and Erin Jones, Texas A&M AgriLife
Research
- 3:00 pm – 3:20 pm **BREAK**
Room: Promenade
- SM-20 The Texas A&M AgriLife SaltCedar
3:20 pm – 3:40 pm Biological Control Implementation
Program. **Allen Knutson** and Mark
Muegge, Texas A&M University
- SM-21 The Tamarisk Coalition's Multi-State
3:40 pm – 4:00 pm Beetle Monitoring Program. **Jesse**
Lanci, Tamarisk Coalition

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- 1:00 pm – 4:40 pm **SYMPOSIUM III: Biological Control of Saltcedar: Progress and Challenges in the Southwestern US (cont.)**
Room: Santo Tomas & Chamberino
Moderator: James Tracy and Allen Knutson
- SM-22 Projecting impacts of tamarisk beetles
4:00 pm – 4:20 pm (*Diorhabda* spp.) on habitat of the
 endangered southwestern willow
 flycatcher (*Empidonax traillii extimus*)
 and mitigation through riparian
 restoration. **James Tracy** and Robert
 Coulson, Texas A&M University
- SM-23 Observations on *Diorhabda* spp. in
4:20 pm – 4:40 pm northern Chihuahua state, Mexico and its
 chemical control on athel tree, *Tamarix*
 aphylla. **Sergio R. Sanchez-Pena**,
 Universidad Autonoma Agraria Antonio
 Narro, Pablo Zamorano-de Haro,
 Instituto Nacional de Ecologia and G. A.
 Estrada-Munoz, Universidad Autonoma
 Agraria Antonio Narro

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

SUBMITTED POSTER SESSION:

- 8:00 am – 5:00 pm **Viewing**
Room: Promenade
- P-1 The stink bugs (Heteroptera: Pentatomidae) of New
 Mexico. **C. Scott Bundy**, New Mexico State University
- P-2 Life history and laboratory rearing of *Narnia femorata*
 Stal (Hemiptera: Heteroptera) in southern New Mexico,
 with immature illustrations. **Helen Kim Vessels** and **C.**
 Scott Bundy, New Mexico State University
- P-3 Genome size diversity in arthropods. **Shawn**
 Hanrahan and Spencer Johnston, Texas A&M
 University
- P-4 Transporter specificity of *Aedes aegypti* SLC7 amino
 acid transporter CAT3. **Hannah Drumm**, Immo Hansen
 and David Price, New Mexico State University
- P-5 A transcriptional comparison of larval and adult Yellow
 Fever mosquito (*Aedes aegypti*) malpighian tubules.
 David Price, Immo Hansen and Hannah Drumm, New
 Mexico State University

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- P-6 Field trials on microbial control of fall armyworm, *Spodoptera frugiperda*, emphasizing the fungus *Nomuraea rileyi*, in Saltillo and Tampico, Mexico. **Sergio Sanchez-Pena** and Oscar Rosales-Escobar, Universidad Autonoma Agraria Antonio Narro, Pablo Zamorano-de Haro, Instituto Nacional de Ecologia, and G. A. Estrada-Munoz, Universidad Autonoma Agraria Antonio Narro
- P-7 Dispersal of House flies (*Musca domestica*) from livestock facilities and the significance of habitat corridors. **Trisha Dubie**, Justin Talley and Astri Wayadande, Oklahoma State University
- P-8 Laboratory evaluations of new insecticides for control the bed bug (*Cimex lectularius* L). **Brittney Blakely** and Alvaro Romero, New Mexico State University
- P-9 Ants I have known. **John Goolsby**, Cattle Fever Tick Research Lab, USDA-ARS
- P-10 Response of Russian wheat aphid resistance in wheat and barley to four *Diuraphis* species found in the United States. **Gary Puterka**, Scott Nicholson and Mike Brown, USDA-ARS, Stillwater
- P-11 Efficacy of portal against spider mites in corn. **Scott Ludwig**, Pedro Hernandez, Botond Balogh, Jessica Samler and James Adams, Nichino America Inc,

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- P-12 Setting an action (boll protection) threshold: Verde plant bug damage to cotton affected by insect density and plant/boll maturity. **Michael Brewer** and Darwin Anderson, Texas A&M AgriLife Research, and J. Scott Armstrong, USDA-ARS, Stillwater
- P-13 Efficacy of a physical method for control of direct pests of apples and peaches. **Tessa Grasswitz** and Olga Fimbres, New Mexico State University
- P-14 A critical analysis of greenbug *Schizaphis graminum* (Rondani), Biotypes E, I and K in the wheat-sorghum cropping system of the central great plains. **J. Scott Armstrong** and Gary Puterka, USDA-ARS, Stillwater
- P-15 Ground-dwelling arthropod assemblages and associated natural enemies across a habitat gradient occupied by Northern Bobwhite Quail in western Oklahoma. **Shane Foye**, Carmen Greenwood and Kenneth Masloski, Oklahoma State University
- P-16 Phytotoxic aphid and plant interactions: Comparison between Aphid species attacking wheat. **Scott Nicholson** and Gary Puterka, USDA-ARS, Stillwater
- P-17 Evaluation of phytoplasmic insect vectors causing LY and TPPD using quantitative real-time PCR. **Lauren Lambeth**, University of Texas at Tyler

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- P-18 Planting time and incidence of TYLCV in organic tomatoes in south Texas. **Gabriela Esparza-Diaz**, Texas A&M University and Raul Villanueva, Texas A&M AgriLife Extension
- P-19 Predation of lepidopteran eggs in New Mexico pecan orchards. **Jane Breen Pierce**, Patricia Monk, Devin Bendixsen and Derik Bendixsen, New Mexico State University
- P-20 A decade of *Lygus* research in the Texas high plants: Research highlights and clientele outreach. **Stanley Carroll**, Ram Shrestha and Megha Parajulee, Texas A&M AgriLife Research
- P-21 Improved specimen preparation and SEM imaging reveal the morphology of a west African sorghum resistant to storage insects. Michael Pendleton and Ann Ellis, Texas A&M University, **Bonnie Pendleton**, West Texas A&M University, and Niamoye Yaro Diarisso, Institut D'Economie Rurale
- P-22 Boll wall thickness relative to stink bug stylet penetration potential. **Jesus Esquivel**, SPARC, USDA-ARS and Lori Hinze, Crop Germplasm Research Unit, USDA-ARS

PROGRAM

WEDNESDAY, 27 FEBRUARY 2013 (cont.)

- P-23 Pink bollworm (*Pectinophora gossypiella*) monitoring and Eradication program activities on the southern plains of west Texas and eastern New Mexico 2010-2012. **Charles Allen**, Texas A&M University, Jane Pierce, New Mexico State University, Manda Anderson, Scott Russell, Tommy Doederlein and Warren Multer, Texas A&M AgriLife Extension, and Larry Smith, Texas Boll Weevil Eradication Foundation
- P-24 Influence of harvesting practices on predation in alfalfa and adjacent cotton in New Mexico. **Patricia Monk** and Jane Breen Pierce, New Mexico State University
- P-25 Regional cropping and landscape analysis applied to cotton pest management: risk assessment of the Verde plant bug (*Creontiades signatus*) in South Texas. Luke Pruter and **Mike Brewer**, Texas A&M AgriLife Research, Jonda Halcomb and John Nelson, Del-Mar College

5:00 pm – 6:30 pm **LINNAEAN GAMES**
Room: Santo Tomas & Chamberino

7:00 pm – 10:00 pm **BANQUET AND AWARDS**
Room: Brazito

Invited Speaker: **The History of the Mesilla Valley**
Jon Hunner, PhD
Department Head, NMSU History Dept.

PROGRAM

THURSDAY, 28 FEBRUARY 2013

- 7:00 am – 8:00 am **Breakfast (coffee and donuts)**
Room: Chamberino & Mesilla
- 8:00 am – 10:00 am **SWB-ESA FINAL BUSINESS MEETING**
Room: Chamberino & Mesilla

ABBREVIATIONS LIST

- O – Submitted Oral Presentation
P – Submitted Poster Presentation
SO – Student Oral Presentation Competition
SP – Student Poster Presentation Competition
SM – Symposia Presentations

PRESIDENTS AND CHAIRMEN OF SWB-ESA

President	Year	Location
Pres. Scott Bundy	2012-13	Las Cruces, NM
Pres. Allen Knutson	2011-12	Little Rock, AK
Pres. Tom Royer	2010-11	Amarillo, TX
Pres. Carlos Blanco	2009-10	Cancun, Mexico
Pres. Bonnie Pendleton	2008-09	Stillwater, OK
Pres. Greg Cronholm	2007-08	Ft. Worth, TX
Pres. David Thompson	2006-07	Corpus Christi, TX
Pres. Bart Drees	2005-06	Austin, TX
Pres. Phil Mulder	2004-05	Albuquerque, NM
Pres. John D. Burd	2003-04	Lubbock, TX
Pres. Terry Mize	2002-03	Oklahoma City, OK
Pres. W. Pat Morrison	2001-02	Guanajuato, Mexico
Pres. Jim Reinert	2000-01	San Antonio, TX
Pres. James A. Webster	1999-00	Ft. Worth, TX
Pres. Carol Sutherland	1998-99	Las Cruces, NM
Pres. Ann Weise	1997-98	Corpus Christi, TX
Pres. Pete Lingren	1996-97	Oklahoma City, OK
Pres. Charles L. Cole	1995-96	Austin, TX
Pres. J. Terry Pitts	1994-95	Dallas, TX
Pres. Sidney E. Kunz	1993-94	Monterrey, Mexico
Pres. John G. Thomas	1992-93	Albuquerque, NM
Pres. Don Bull	1991-92	Tulsa, OK
Pres. Aithel McMahon	1990-91	College Station, TX
Pres. Russel E. Wright	1989-90	San Antonio, TX
Pres. Joyce Devaney	1988-89	El Paso, TX
Pres. Russ Andress	1987-88	Dallas, TX
Pres. Don Rummel	1986-87	Austin, TX
Pres. John E. George	1985-86	Monterrey, Mexico
Pres. Paul D. Sterling	1984-85	San Antonio, TX
Pres. H. Grant Kinzer	1983-84	Oklahoma City, OK
Pres. James R. Coppedge	1982-83	Corpus Christi, TX
Pres. Bill C. Clymer	1981-82	El Paso, TX

Pres. Horace W. VanCleave	1980-81	San Antonio, TX
Pres. Robert L. Harris	1979-80	Brownsville, TX
Pres. Jimmy K. Olson	1978-79	Houston, TX
Pres. J. Pat Boyd	1977-78	Lubbock, TX
Pres. Robert A. Hoffman	1976-77	Guadalajara, Mexico
Pres. Weldon H. Newton	1975-76	Oklahoma City, OK
Pres. Harry L. McMenemy	1974-75	El Paso, TX
Pres. Roger O. Drummond	1973-74	Dallas, TX
Pres. Dieter S. Enkerlin	1972-73	San Antonio, TX
Pres. Stanley Coppock	1971-72	Mexico City, Mexico

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

* Southwestern Branch, American Association of Economic Entomologists



Figure 1. Historic Old Mesilla Plaza has over 40 shops with traditional and contemporary arts and crafts from the southwest, Mexico, and Central America. Mesilla is a part of living history. Great care has been given to preserve the original adobe buildings and the beautiful plaza. People from all over the world stop to experience the history, art, architecture, and quaint shopping that Mesilla has to offer.

Directions to **Historic Old Mesilla Plaza** from the Ramada Palms:

- Head west on E University Ave toward S Valley Dr
- Turn right onto Avenida De Mesilla
- Turn left onto Calle De San Albino
- Take the 1st right onto Calle De Parlan
- Old Mesilla Plaza will be on the left

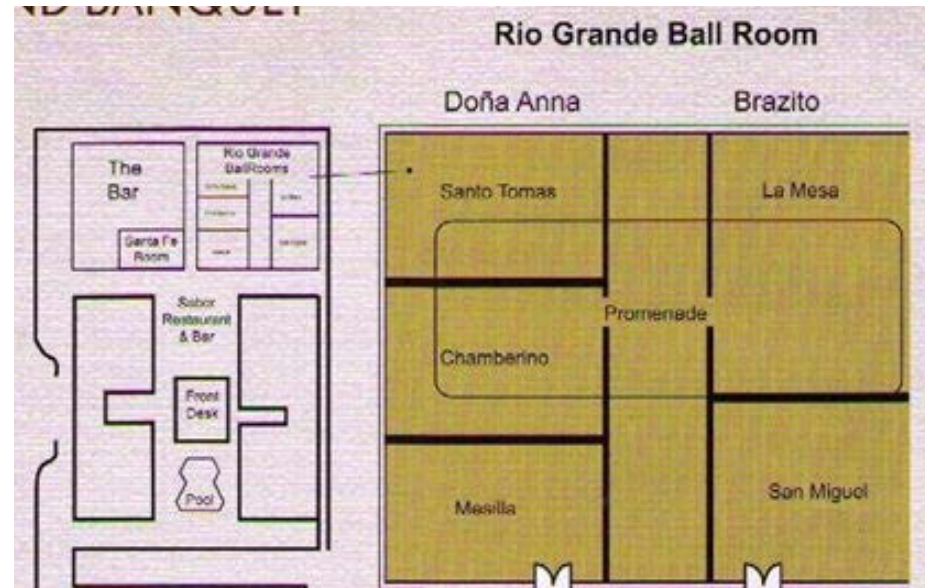


Figure 2. Map of the Meeting and Banquet Facilities at the Ramada Palms.