

56th ANNUAL MEETING
of the SOUTHWESTERN BRANCH of the
ENTOMOLOGICAL SOCIETY OF AMERICA



and the Annual Meeting of the
SOCIETY OF SOUTHWESTERN
ENTOMOLOGISTS



23 – 26 FEBRUARY 2008
DORAL TESORO HOTEL and
GOLF CLUB
FORT WORTH, TEXAS

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OVERVIEW: SATURDAY, 23 FEBRUARY

- 1:00 – 9:00 **Poster Set-up** (Sabine and San Antonio)
- 3:00 – 7:00 **Registration**
- 1:00 – 2:00 **Southwestern Branch Executive Board Meeting**
(Brazos Theater)
- 2:00 – 4:00 **Executive Committee, Society of Southwestern
Entomologists**
(Brazos Theater)
- 4:00 – 5:00 **General Membership Meeting, Society of
Southwestern Entomologists** (Brazos Theater)
- 7:00 – 9:00 **Linnaean Games Round 1**
(Rio Grande)

OVERVIEW: SUNDAY, 24 FEBRUARY

- 7:00 – 8:00 **Continental Breakfast** (Sabine)
- 7:00 – 5:00 **Job Opportunity Room** (Elizabeth Creek)
- 8:00 – 5:00 **Presentation Preview and Collection Desk**
(Foyer by Sabine)
- 8:00 – 5:00 **Poster Viewing** (Sabine and San Antonio)
- 8:00 – 9:30 **Opening Session, Plenary Address**
(Trinity Ballroom)
- 9:45 – 12:24 **Student Oral Presentation Competition**
(Trinity Ballroom)
- 1:00 – 4:00 **Symposium: Current Understanding and Future
Prospects of Molecular Tools in IPM Research**
M. Parajulee (Rio Grande)
- 1:00 – 5:00 **Submitted Oral Presentations**
(Red River)
Session 1: **Crop Protection**
Session 2: **Regulatory Entomology**
- 4:00 – 5:00 **Submitted Oral Presentations**
Session 3: **Biology, Ecology and Behavior**
(Rio Grande)
- 7:00 pm **Banquet and Award Presentations**
(Trinity Ballroom)

OVERVIEW: MONDAY, 25 FEBRUARY

- 7:00 – 8:00 **Continental Breakfast** (Sabine)
- 7:00 – 5:00 **Job Opportunity Room** (Elizabeth Creek)
- 8:00 – 5:00 **Presentation Preview and Collection Desk**
(Foyer by Sabine)
- 8:00 – 5:00 **Poster Viewing** (Sabine and San Antonio)
- 8:00 – 12:00 **Symposium: Pest Management Strategies for the
Urban Landscape**
E. Rebek (Rio Grande)
- 8:00 – 11:00 **Symposium: Ecological Perspectives for IPM**
A. Chow and S. Frank (Red River)
- 11:00 – 12:06 **Submitted Oral Presentations**
(Red River)
Session 4: **Biological Control**
Session 5: **Physiology, Toxicology and
Biochemistry**
- 1:00 – 5:00 **Symposium: Structural Urban Research,
Extension and Outreach Programs in the
Southwestern Region**
B. Davis, M. Merchant and K. Schofield.
(Rio Grande)
- 1:00 – 5:00 **Symposium: Research and Considerations
Regarding Biofuel Cropping Systems**
C. Nansen (Red River)
- 5:00 – 7:00 **Linnaean Games Finals** (Rio Grande)
- 7:00 – 10:00 **Student Mixer** (Club House)

OVERVIEW: TUESDAY, 26 FEBRUARY

8:00 – 10:00 **Final Business Meeting**
(Red River)

10:00 – 12:00 **Executive Committee Meeting**
(Red River)

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	Pre-pay	On-site	One Day
SWB or SSE Member	\$105	\$150	\$75
Student SWB or SSE Member	\$35	\$60	\$30
Youth Member	\$10	\$10	--
Spouse/Guest	\$50	\$50	--
Honorary/Emeritus Non-member	<i>Gratis</i>	<i>Gratis</i>	--
	\$130	\$175	\$90

The full-meeting fee includes admission to all functions, including the banquet. The one-day fee does not include the banquet.

BANQUET:

The banquet will be in the Trinity Ballroom. Extra tickets may be purchased at the Registration Desk.

ESA CERTIFICATION BOARD:

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 student mixer, Linnaean Games, continental breakfast, 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.

Sunday, 24 February 2008

Plenary Session

Trinity Ballroom

- 8:00 Call to Order and Welcome – **Greg Cronholm**,
President, Southwestern Branch of the ESA
- 8:10 ESA Update – **Michael E. Gray**, President, Entomological
Society of America, and **Robin Kriegel**, Executive Director,
Entomological Society of America
- 8:30 ESA Governing Board Report – **Marvin Harris**, ESA
Governing Board Representative
- 8:40 Necrology Report – **Jim Reinert**
- 8:50 Society of Southwestern Entomologists Welcome – **Carlos
Bogran**, President
- 8:55 Board Certified Entomologists – **Bart Drees**, BCE
Representative
- 9:00 Keynote Address: “Perspectives from A Career in Public
Health Entomology” – **Roy Burton**, Texas Department of
State Health Services
- 9:30 Announcements – **Patrick Porter**, Program Committee
Chair, and **Allen Knutson**, Local Arrangements Chair

Break

Student Oral Presentation Competition begins at 9:48 in this room.

Sunday, 24 February 2008

Student Oral Presentation Competition

Trinity Ballroom

Bachelor of Science

9:48 **The Effects of a Solvent (Orange Oil) on QRT-PCR for Detection of *Xylella fastidiosa* in Insect Vectors.** Patrick Marshall, University of Texas at Tyler; Forrest Mitchell, Texas AgriLife Research; Blake Bextine, University of Texas at Tyler.

10:00 **Improved *Xylella fastidiosa* Genotype Differentiation Using DNA Melt Temperature (T_m) Analysis.** Natalie J. Vitovsky and Blake Bextine, University of Texas at Tyler.

Master of Science

10:12 **Laboratory Life History Study of *Lygus hesperus* Knight on Different Host Plants.** Chen Chen and Megha N. Parajulee, Texas AgriLife Research.

10:24 **Roasting Grasshoppers: The Influence of Fire on Insects in a Mesquite Encroached Grassland.** Joy Lynn Newton and Richard T. Kazmaier, West Texas A&M University.

10:36 **Biological Control Agent or Pest? The Impact of Insect Herbivory on the Alkaloid Swainsonine in Locoweed Species.** Joyce Parker, and Dave Thompson, New Mexico State University.

10:48 **Evaluation of Insecticides Against Leafminers and Associated Parasitoid Guilds.** Ricardo Hernandez and Tong-Xian Liu, Texas AgriLife Research; Marvin Harris, Department of Entomology, Texas A&M University.

11:00 **Relationship Between Cotton Boll Age and *Lygus* Injury.** Mahendra Adhikari, Megha N. Parajulee, and Ram B. Shrestha, Texas AgriLife Research.

11:12 **Variation within ITS1 and ITS2 Regions in Corn Earworm (*Lepidoptera: Noctuidae*): Implications for Population Genetic Studies.** Ausencio Azuara, Universidad Autónoma Agraria Antonio Narro; O. P. Perera, USDA-ARS SIMRU; Sergio Sanchez-Peña, Universidad Autónoma Agraria Antonio Narro; Diana Resendiz, Universidad Autónoma de Nuevo León; Ryan Jackson and Carlos A. Blanco, USDA-ARS SIMRU.

Doctor of Philosophy

11:24 **Differential Foraging Response to Racially Derived Blends of Brood Pheromone in the Honey Bee.** Bradley N. Metz and Tanya Pankiw, Department of Entomology, Texas A&M University.

11:36 **Canopy and Ground Dwelling Spiders in Pecan in Central Texas.** Alejandro Calixto, Allen Dean and Marvin Harris, Department of Entomology, Texas A&M University; Allen Knutson and Bill Ree, Texas AgriLife Extension.

11:48 **Nocturnal Foraging Behavioral Dynamics of Red Imported Fire Ants (*Solenopsis invicta* Buren) in the Presence and Absence of Pseudacteon Phorid Flies.** Robert T. Puckett and Marvin Harris, Department of Entomology, Texas A&M University.

12:00 ***Arabidopsis thaliana* resistance to Green Peach Aphid: Role of MPL1 (MYZUS PERSICAE INDUCED LIPASE1) Gene.** Joe Louis, Department of Biological Sciences, University of North Texas; Vijay Singh, University of North Texas; Jessica Morton and John C. Reese, Kansas State University; Jyoti Shah, University of North Texas.

12:12 **The Effects of Dietary Hydrocarbons on Cuticular Hydrocarbon Profiles in Termites.** Ngan Nguyen and Robin Madden, Oklahoma State University; Kenny Brown, City of New Orleans Mosquito and Termite Control Board; Brad Kard and Jack Dillwith, Oklahoma State University.

Sunday, 24 February 2008

Student Poster Competition

Sabine and San Antonio Rooms

SP-01 (B.S.) Spatial and Temporal Distribution of Insect Feeding on Oak Acorns in the Cross Timbers Region of Texas.

Ray Noah, David Kattes, Mike Wade and Barry Lambert, Tarleton State University.

SP-02 (B.S.) Factors Affecting Interaction Rates and Space Use of *Plathemis lydia* (Drury 1773) (Odonata: Libellulidae).

Claire Curry and James H. Kennedy, University of North Texas.

SP-03 (M.S.) Population Trends and Resource Usage of Native and Exotic Coccinellidae in the KBS LTER.

Alissa M. Berro, Oklahoma State University; Douglas A. Landis and Manuel Colunga-Garcia, Michigan State University.

SP-04 (M.S.) Assessing *Homalodisca vitripennis* Arrival in Texas Vineyards.

Danny McDonald, Isabelle Lauziere and Forrest Mitchell, Texas AgriLife Research.

SP-05 (M.S.) Electrical Penetration Graphs of Squash Bugs

Feeding on Watermelon. Kaushal Maskey and Astri Wayadande,

Oklahoma State University; Benny Bruton, USDA; Jacqueline Fletcher, Oklahoma State University.

SP-06 (M.S.) Red Imported Fire Ant Impact on Insect

Community as a Food Source for the Endangered Attwater's

Prairie-Chicken. Camila Botero, Department of Entomology, Texas

A&M University; Bart Drees, Texas AgriLife Extension; Alejandro

Calixto and Marvin Harris, Department of Entomology, Texas A&M

University.

SP-07 (M.S.) **Possible Relationship Between Mesquite Gall Flies (*Asphondylia* spp.) and Ambrosia Fungi.** Ik Ju Park, David Thompson and Soum Sanogo, New Mexico State University.

SP-08 (M.S.) **Field Studies of Potential Spider Predators of *Diorhabda elongata* on Tamarix.** Eric M. Knutson and David Richman, New Mexico State University.

SP-09 (M.S.) **Variable Fitness of *Diorhabda elongata* Feeding in a Common Garden of Tamarix from the Western United States.** Brian Zens, Kevin Gardner and David C. Thompson, New Mexico State University.

SP-10 (M.S.) **Activity of Oil-formulated Conidia of the Entomopathogens *Nomuraea rileyi* and *Paecilomyces tenuipes* Against Fall Armyworm (*Spodoptera frugiperda*) Larvae.** Paulina Vega-Aquino and Sergio R. Sánchez-Peña, Departamento de Parasitología, Universidad Autónoma Agraria Antonio Narro, Saltillo, México; Carlos A. Blanco, USDA-ARS SIMRU.

SP-11 (M.S.) **Genetic Screening of Multiple Populations of the Potato / Tomato Psyllid (*Bactericera cockerelli*).** Brian Jackson and Blake Bextine, University of Texas at Tyler.

SP-12 (M.S.) **Insecticide Resistance in House Flies, *Musca domestica*, Populations in Four Dairies in Central Texas, USA.** Patrick L. McClellan, Tarleton State University; Jeffrey K. Tomberlin, Texas A&M University; David H. Kattes, Tarleton State University.

SP-13 (B.S.) **Genetic Analysis of Populations of *Bactericera cockerelli* (Potato Psyllid) in McAllen, Texas Using Inter Simple Sequence Repeat (ISSR) Data.** Alexandra Wyzykowski and Brian Jackson, University of Texas at Tyler; John Goolsby, USDA-ARS; Blake Bextine, University of Texas at Tyler.

SP-14 (M.S.) **Fire Ants (*Solenopsis* spp.) Mitochondrial DNA Markers from Northern Mexico.** Citlali Chacón-Cardosa, Departamento de Biología Celular y Genética, Facultad de Ciencias

Biológicas, Universidad Autónoma de Nuevo León, San Nicolás, Nuevo León, México; Sergio R. Sánchez-Peña, Departamento de Parasitología, Universidad Autónoma Agraria Antonio Narro, Saltillo, Coahuila, Mexico; Diana Reséndez-Pérez, Departamento de Biología Celular y Genética, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, San Nicolás, Nuevo León, México.

SP-15 (Ph.D.) Expression and Characterization of *Anopheles gambiae* Acetylcholinesterase-1. Siwei Liu, Picheng Zhao and Haobo Jiang, Oklahoma State University.

SP-16 (Ph.D.) Broad-spectrum Antimicrobial Activity of the Reactive Compounds Generated in vitro by *Manduca sexta* Phenoloxidase. Picheng Zhao, Jiajing Li and Haobo Jiang, Oklahoma State University.

SP-17 (M.S.) A Preliminary Survey of Blister Beetles in New Mexico. Sam Lowry and C. Scott Bundy, New Mexico State University.

SP-18 (Ph.D.) Changes in Benthic Macroinvertebrate Community Structure (1988 - 2005) in a Rapidly Urbanizing Western River, the Trinity River, Texas. Jaime L. Slye, David R. Johnson and Sam F. Atkinson, Institute of Applied Sciences, University of North Texas.

Sunday, 24 February 2008

Submitted Posters

Sabine and San Antonio Rooms

P-01 Within-Plant Distribution of Cotton Fleahoppers (Hemiptera: Miridae) in Cotton. Charles P.-C. Suh, USDA-ARS, APRMU.

P-02 Host Preference Survey of Stink Bugs on Texas High Plains Cotton, Alfalfa and Prevalent Weeds. Stanley C. Carroll, Megha N. Parajulee and Mark D. Arnold, Texas AgriLife Research.

P-03 Compensation of Lygus-Induced Fruit Loss in Cotton. Megha N. Parajulee, Apurba K. Barman, Ram B. Shrestha, Chen Chen, Abhilash Balachandran and Stanley Carroll, Texas AgriLife Research.

P-04 Cotton Pollen Longevity in the Boll Weevil Gut. Gretchen D. Jones, USDA-ARS, APRMU; Shoil M. Greenberg, USDA-ARS.

P-05 Life Table of *Oligonychus punicae* on Three Avacado Cultivars. Jeronimo Landeros-Flores, Ernesto Cerna-Chavez, Ricardo Flores-Canales and Luis Patricio Guevara Acevedo, UAAAN.

P-06 Population Parameters of *Tetranychus urticae* on Four Cultivars of Roses. Ricardo Flores-Canales, Ernesto Cerna-Chavez, Jeronimo Landeros-Flores and Y. Ochoa, UAAAN.

P-07 Population Distribution of *Tetranychus urticae* in Corn of La Laguna, Mexico. Luis Patricio Guevara Acevedo, Jeronimo Landeros-Flores, Oton Bravo Santos, and Ernesto Cerna-Chavez, UAAAN.

P-08 Ant species (Formicidae) Assemblages in Red Imported Fire Ant (*Solenopsis invicta*) Infestations in Matamoros, Tamaulipas, Mexico. Sergio R. Sánchez-Peña, Jorge L. Quezada-Martínez and Elsy M. Delgado-García, Departamento de Parasitología, Universidad Autónoma Agraria Antonio Narro, Saltillo, México; Heriberto Diaz-Solís, Departamento de Recursos Naturales Renovables, Universidad Autónoma Agraria Antonio Narro, Saltillo, México.

P-09 A Survey for *Rhinocyllus conicus* and Its Impacts on the Endangered Sacramento Mountains Thistle (*Cirsium vinaceum*). Kevin T. Gardner, David C. Thompson, Joyce Parker and Brian Zens, New Mexico State University.

P-10 Release of *Diorhabda elongate* (Chrysomelidae) Beetles for Biological Control of Saltcedar in Mitchell and Nolan Counties, Texas. Ed Bynum, Allen Knutson, John Senter and Zack Wilcox, Texas AgriLife Extension Service.

P-11 Comparison of Insecticides and Timing of Treatments for Optimum Impact on Cotton Fleahopper. Roy Parker, Texas AgriLife Extension Service; Charles Chilcutt, Texas AgriLife Research.

P-12 Seasonal Development of the Alfalfa Weevil in New Mexico. C. Scott Bundy, Sam Lowry, Jane Pierce and Patricia Monk, New Mexico State University.

P-13 Yield Compensation and Fiber Quality in New Mexico Cotton After Simulated Injury. Jane Breen Pierce and Patricia Yates Monk, New Mexico State University.

P-14 Influence of Management on Crop Microclimate and Control of Cotton Bollworm, *Helicoverpa zea* Boddie. Jane Breen Pierce and Patricia Yates Monk, New Mexico State University.

P-15 Developing an Action Threshold for Thrips in Irrigated Cotton for the High Plains of Texas. David L. Kerns, Texas

AgriLife Extension; Megha N. Parajulee, Texas AgriLife Research; Monti R. Vandiver, Texas AgriLife Extension.

P-16 Mortality of Three Species of Lepidopteran Larvae by Feeding on Different Aged Transgenic Cottons. Shoil (Sasha) Greenberg, USDA-ARS, BIRU, KSARC; Y.-X. Li, Department of Entomology, Nanjing Agricultural University, Nanjing, China; John J. Adamczyk, USDA-ARS, BIRU, KSARC; Tong-Xian Liu, Texas AgriLife Research.

P-17 Pathogen Acquisition by Adult Southern Green Stink Bug. Jesus Esquivel and Enrique Medrano, USDA-ARS.

P-18 New Economic Thresholds for Sorghum Pests in Texas. Greg Cronholm and Allen Knutson, Texas AgriLife Extension.

P-19 Functional Role of Macrophage Migration Inhibitory Factor in Ixodid Tick Feeding. Deborah C. Jaworski and C. Jerry Bowen, Oklahoma State University.

P-20 ISEC Home Pest Management. Wizzie Brown and Tom Fuchs, Texas AgriLife Extension.

P-21 Effectiveness of Spirotetramat Against Solanum Mealybug on Potted Chrysanthemum. Cesar Valencia, Camilo Garzon and Carlos E. Bogran, Texas AgriLife Extension.

P-22 Using Energy Dispersive Spectrometry to Compare the Efficiency of Metal Coating Techniques for Scanning Electron Microscopy of Insects. Bonnie B. Pendleton, West Texas A&M University; Michael W. Pendleton and Ann E. Ellis, Texas A&M University.

P-23 Chironomidae (Diptera) Associated with Springs in Southwestern United States of America. James H. Kennedy and Tamara Contador, University of North Texas.

P-24 Protocol for Managing a Small Arthropod Museum. Jessica Perez, New Mexico State University.

P-25 Zoysiagrass (*Zoysia* spp.) Resistance to Fall Armyworm (Lepidoptera: Noctuidae): II. Polyphenols and Flavonoids – Components of Resistance. T.C. Hale and R.H. White, Department of Soil and Crop Science, Texas A&M University; James Reinert, Texas AgriLife Research; M.E. Snook, USDA-ARS Phytochemical Research Unit.

P-26 The Influence of Storm Drains on the Distribution of Mosquitoes (Diptera: Culicidae) in the City of Denton, Texas. Jenny Paul, Michael Kavanaugh and James H. Kennedy, University of North Texas.

P-27 The Power of Perennial: Ecology and Recolonization of Benthic Macroinvertebrates in a Groundwater-fed Stream of North Central Texas Following a Supra-seasonal Drought. Rosemary A. Burk and James H. Kennedy, University of North Texas.

Sunday, 24 February 2008

Symposium: Current Understanding and Future Prospects of Molecular Tools in IPM Research

Rio Grande Room

Coordinator: Megha Parajulee, Texas AgriLife Research

- 1:00 **Plant-Insect Ecosystems as a Home for Molecular Entomology.** Robert N. Wiedenmann, Department of Entomology, University of Arkansas.
- 1:15 **Overview of Molecular Research Programs in Cotton Entomology Laboratory at the Lubbock Center.** Megha N. Parajulee and Ram B. Shrestha, Texas AgriLife Research.
- 1:45 **Molecular Determination of the Adequate Number of Individuals and AFLP Markers to Use When Studying Genetic Differentiation among Intraspecific Populations.** Raul F. Medina, Department of Entomology, Texas A&M University; Pedro Barbosa, Department of Entomology, University of Maryland; Mary Christman, Department of Statistics, Institute of Food and Agricultural Sciences, University of Florida; Andrea Bettisti, Istituto di Entomologia, Universita di Padova.
- 2:15 **Development and Use of AFLP Markers in Understanding Host Associated Differences of Cotton Fleahoppers in Texas.** Apurba K. Barman and Raul F. Medina, Department of Entomology, Texas A&M University; Megha N. Parajulee, Texas AgriLife Research; Christopher G. Sansone, Texas AgriLife Extension Service; Charles Suh, USDA-ARS.

2:45 **Break**

3:00 **Biochemical and Polymerase Chain Reaction (PCR) Techniques to Detect Insecticide Resistance and/or Biotypes Associated with Resistance.** Patricia V. Pietrantonio, Department of Entomology, Texas A&M University.

3:30 **Immunological Assays in Ecological Studies: Movement Behavior of *Lygus* Bugs in Cotton.** Megha N. Parajulee and Ram B. Shrestha, Texas AgriLife Research.

Sunday, 24 February 2008

Submitted Presentations: Crop Protection

Red River Room

Moderator: David Kerns, Texas AgriLife Extension

- 1:00 **Using Volunteer Pecan Producers to Monitor First Generation Pecan Nut Casebearer, *Acrobasis nuxvorella* Neunzig, for a Statewide Prediction Program.** Bill Ree, Texas AgriLife Extension.
- 1:12 **Insecticide Testing Method and Results for Three Species of Kernel Feeding Hemipterans Attacking Pecan.** Bill Ree, Texas AgriLife Extension.
- 1:24 **Finding a Home for Crop Protection Entomologists in the Plant-Insect Ecosystems Section.** Robert N. Wiedenmann, University of Arkansas.
- 1:40 **The Pecan Nut Casebearer (*Acrobasis nuxvorella*) (PNC) Forecast Model: Using Temperature to Improve Forecasting PNC Activity.** Mark Muegge, Allen Knutson, John Jackman and Bill Ree, Texas AgriLife Extension; Phil Mulder, Department of Entomology, Oklahoma State University.
- 1:52 **Efficacy Studies of Bollgard I[®], Bollgard II[®] and Widestrike[™] for Yellowstriped Armyworm Control in Cotton from South Texas and the Mississippi Delta.** J. Scott Armstrong, John J. Adamczyk and Shoil M. Greenberg, USDA-ARS, BIRU.
- 2:04 **Impact of Tillage on Insect Pests in Oklahoma Wheat.** Dayna Alvey, Kris Giles and Jeff Edwards, Oklahoma State University.

- 2:16 **Greenbug Infestation Dynamics in Winter Wheat.** Vasile Catana, Oklahoma State University; Norman Elliott, USDA-ARS PSWCRL; Kris Giles and Mpho Phoofolo, Oklahoma State University.
- 2:28 **Novel Remote Sensing to Differentiate Stress Induced by Russian Wheat Aphid.** Georges F. Backoulou, Oklahoma State University; Norman Elliott, USDA-ARS PSWCRL; Vasile Catana, Oklahoma State University; Tim Johnson, USDA-ARS.
- 2:40 **Impact of Insecticides Targeting Woolly Whitefly on Citrus Thrips and Mites on Citrus.** David L. Kerns, Texas AgriLife Extension.
- 2:52 **Spider Mite Management on Corn Since Resistance to Capture (Bifenthrin) - Effective Alternatives.** Roxanne Bowling, Texas AgriLife Extension; Bonnie B. Pendleton, West Texas A&M University; Gerald Michels, Jr., Texas AgriLife Research; Robert Bowling, Pioneer Hy-Bred International; Patrick Porter, Texas AgriLife Extension. (*This presentation will run 16 minutes.*)

Note: Due to last minute scheduling conflicts, the presentation **DuPont™ Rynaxypyr™ : A Novel Anthranilic Diamide Insecticide in a New Class of Potent and Selective Ryanodine Receptor Agonists** by Eric P. Castner and Daniel Sherrod, DuPont Crop Protection, that was originally scheduled for the Crop Protection Session has been moved to 11:54 on Monday in the Red River Room.

Sunday, 24 February 2008

Submitted Presentations: Regulatory Entomology

Red River Room

Moderator: Awinash Bhatkar, Texas Department of Agriculture

- 3:20 **Regulatory Entomology vs. Invading Pests.** Awinash Bhatkar, Texas Department of Agriculture.
- 3:50 **Citrus and Cotton Quarantines in Texas.** Robert L. Crocker, Texas Department of Agriculture.
- 4:02 **Internships to Develop Future IPM Professionals.** Thomas W. Fuchs, Texas AgriLife Extension.
- 4:14 **Southwestern Branch Critter Finders Update for 2007: Your IDEP Report.** Carol Sutherland, New Mexico State University; Richard Grantham, Oklahoma State University; John Jackman, Texas AgriLife Extension.
- 4:26 **The Case of the Giant Web at Lake Tawakoni State Park, Texas.** John A. Jackman, Texas AgriLife Extension; Allen Dean, Department of Entomology, Texas A&M University; Mike Quinn, Texas Parks and Wildlife.
- 4:38 **Dengue Vectors, Environmental Factors, and Potential Source of Infection in North Central Texas, USA.** Joon-Hak Lee, University of North Texas - Health Science Center; Matt Stahl, UNT-SPH; Scott Sawlis, Dallas County Department of Health; Sumi Suzuki, University of North Texas - Health Science Center.

Sunday, 24 February 2008

Submitted Presentations, Biology, Ecology and Behavior

Rio Grande Room

Moderator: Carlos A. Blanco, USDA-ARS SIMRU

- 4:00 **Red Spermatophore(s) in Tobacco Budworm: What Makes Them Red and What is Their Purpose?** Carlos A. Blanco, USDA-ARS SIMRU; Astrid Groot, Max Plank Institute for Chemical Ecology; Fred Gould, North Carolina State University; Guadalupe Rojas and Juan Morales-Ramos, USDA-ARS NBCL.
- 4:12 **Quantification of Blackmargined Aphid, *Monellia caryella* (Fitch), Honeydew Production in Pecan.** Jessica Honaker, Department of Entomology, Texas A&M University; Juan Lopez, USDA-ARS; Dan Martin, Texas A&M University; Marvin Harris, Department of Entomology, Texas A&M University.
- 4:24 **The Effect of Previous Cotton Aphid Feeding on Subsequent Beet Armyworm Herbivory on Cotton.** Jared Ripple, Micky Eubanks, Caralyn B. Zehnder and Steven D. Frank, Department of Entomology, Texas A&M University.
- 4:36 **Real Clean Arthropods Using Shampoo: A Practical, Non-toxic Killing Agent for Pitfall Traps.** Sergio R. Sánchez-Peña, Departamento de Parasitología, Universidad Autónoma Agraria Antonio Narro, Saltillo, México.
- 4:48 **Arthropod Diversity within Foliage of Saltcedar, *Baccharis* and Willow in West Texas.** Manuel Campos, Mark Muegge and Allen Knutson, Texas AgriLife Extension.
- 5:00 **Description and Time Budget Analysis of Indianmeal Moth Oviposition Behavior.** Kishan R. Sambaraju and Sarah

L. Donelson, Oklahoma State University; Thomas W. Phillips,
Kansas State University.

Southwestern Branch Banquet

Trinity Ballroom

7:00 Includes an address by Gregory Cronholm, President of the
Southwestern Branch of the ESA.

Monday, 25 February 2008

Symposium: Pest Management Strategies for the Urban Landscape

Rio Grande Room

- 8:00 **Introductory Remarks.** Eric J. Rebek, Coordinator
- 8:05 **Variable Resistance of Ash Trees to Emerald Ash Borer, *Agrilus planipennis*.** Eric J. Rebek, Dept. of Entomology and Plant Pathology, Oklahoma State University; Clifford S. Sadof, Department of Entomology, Purdue University; Lawrence M. Hanks, Department of Entomology, University of Illinois.
- 8:25 **Seasonal Abundance and Distribution of Ambrosia Beetles in Southeast Texas Tree Nurseries.** Julia Smith, Cesar Valencia and Carlos E. Bográn, Texas AgriLife Extension.
- 8:45 **Invasive Pests of Landscape Ornamentals in the Southwest.** Scott W. Ludwig, Texas AgriLife Extension.
- 9:05 **What's Been Chomping MY Landscape? A Review from New Mexico.** Carol A. Sutherland, Extension Plant Sciences, New Mexico State University/State Entomologist, New Mexico Dept. of Agriculture.
- 9:25 **What's in a Name? May/June Beetle Grubs and Intensively Managed Turfgrass in Oklahoma.** Tom A. Royer, Dept. of Entomology and Plant Pathology, Oklahoma State University; Joseph P. Duskocil, Dept. of Entomology, North Carolina State University; Nathan P. Walker, Dept. of Entomology, Oklahoma State University.

- 9:45 **Managing Insect Pests of Pecan in the Urban Landscape.**
Phillip Mulder, Dept. of Entomology and Plant
Pathology, Oklahoma State University.
- 10:05 **Break**
- 10:10 **Control of Azalea Bark Scale, *Eriococcus azaleae***
(Comstock), on Crape Myrtle, *Lagerstroemia indica*
L. Kimberly Schofield, Michael Merchant, Scott
Ludwig, Raul Cabrera and Carlos Bográn, Texas
AgriLife Extension Service.
- 10:30 **Management Approaches for the Florida Wax Scale, a**
Pest of Hollies in the Texas Landscape. Bart Drees,
Kimberly Schofield, Wizzie Brown and Carlos Bográn,
Texas AgriLife Extension; Vassilis Vassiliou,
Agricultural Research Institute, Plant Protection Section,
Nicosia, Cyprus.
- 10:50 **Practical Considerations Regarding *Thelohania***
***solenopsae* for Management of Red Imported Fire**
Ant. Forrest Mitchell, Texas AgriLife Research.
- 11:10 **Insect Host Resistance in Warm-season Turfgrasses.**
James A. Reinert, Texas AgriLife Extension.
- 11:30 **Predator and Alternative Food Density Affect Cutworm**
Survival, Activity, and Growth. Steven D. Frank,
Department of Entomology, Texas A&M University;
Paula M. Shrewsbury and Ellery Vodraska, Department
of Entomology, University of Maryland.
- 11:50 **Manipulating Fertilization to Enhance Biological and**
Chemical Control of Spidermites in Ornamental
Landscapes. Andrew Chow, Amanda Chau, Kevin M.
Heinz, Department of Entomology, Texas A&M
University.

Monday, 25 February 2008

Symposium: Ecological Perspectives on IPM

Red River Room

Coordinators: Andrew Chow and Steven D. Frank

- 8:00 **Introductory Remarks.** Andrew Chow and Steve D. Frank, Department of Entomology, Texas A&M University.
- 8:05 **Host-associated Differentiation in Agro-ecosystems and Its Implications for IPM.** Raul F. Medina, Department of Entomology, Texas A&M University.
- 8:25 **Host Plants as Communication Channels-Implication for Biological Control.** Andrea L. Joyce, S. Bradleigh Vinson and Raul F. Medina, Department of Entomology, Texas A&M University.
- 8:45 **Assessing Combinations of Predatory Mites and Predatory Bugs for Control of Western Flower Thrips: What Can ‘Prey Switching’ Tell Us?** Andrew Chow, Amanda Chau and Kevin M. Heinz, Department of Entomology, Texas A&M University.
- 9:05 **Conservation Biological Control of *Euonymus* scale, *Unaspis euonymi*, Using Floral Resource Plants.** Eric J. Rebeck, Department of Entomology and Plant Pathology, Oklahoma State University; Clifford D. Sadof, Department of Entomology, Purdue University; Lawrence M. Hanks, Department of Entomology, University of Illinois.
- 9:25 **Break**

- 9:35 **Ant-aphid Mutualisms, Plant Community Composition and the Spread of an Aphid-vectorred Virus in Tomatoes.** Caralyn B. Zehnder and Micky D. Eubanks, Department of Entomology, Texas A&M University.
- 9:55 **The Winter Biology of *Lysiphlebus testaceipes* and IPM in Wheat.** Kristopher Giles, Department of Entomology and Plant Pathology, Oklahoma State University.
- 10:15 **Habitat Complexity and Concomitant Changes in Species Diversity Affect Natural Enemy Interactions and Herbivore Suppression.** Steven D. Frank and Micky D. Eubanks, Department of Entomology, Texas A&M University; Chad T. Harvey, Great Lakes Institute for Environmental Research, University of Windsor.
- 10:35 **Complex Trophic Interactions and Pervasive Invasives: The Role of Mutualisms in Mediating the Effects of Fire Ants on Arthropods and Host Plants.** Micky D. Eubanks, Department of Entomology, Texas A&M University.
- 10:55 **Concluding Remarks.** Andrew Chow and Steven D. Frank, Department of Entomology, Texas A&M University.

Monday, 25 February 2008

Submitted Presentations: Biological Control

Red River Room

Moderator: Allen Knutson, Texas AgriLife Extension

- 11:00 **Are Predators Impeding Success of Biological Control of Saltcedar in West Texas?** Allen Knutson, and Mark Muegge, Texas AgriLife Extension; Manuel Campos, Department of Entomology, Texas A&M University.
- 11:12 **Intraguild Predation in Biological Controls: The Role of Multiple Prey Populations.** Toshinori Okuyama, Rice University.

Submitted Presentations: Physiology, Biochemistry and Toxicology

Red River Room

Moderator: Zhaorigetu Chen, University of Texas

- 11:30 **Lipid Mobilization in the Migratory Grasshopper, *Melanoplus sanguinipes* in Relation to Long Flight.** Zhaorigetu Chen, University of Texas at Austin; Robin D. Madden and Jack W. Dillwith, Oklahoma State University; Mary Ann Rankin, University of Texas at Austin.
- 11:42 **Cereal Aphid-Wheat Interaction Research at Texas AgriLife Research in Amarillo.** Yiqun Weng, Texas AgriLife Research.
- 11:54 **DuPont™ Rynaxypyr™ : A Novel Anthranilic Diamide Insecticide in a New Class of Potent and Selective**

Ryanodine Receptor Agonists. Eric P. Castner and Daniel Sherrod, DuPont Crop Protection.

Monday, 25 February 2008

Symposium: Structural Urban Research, Extension and Outreach Programs in the Southwestern Region

Rio Grande Room

Coordinators: Robert Davis, Michael Merchant and Kimberly Schofield

- 1:00 **Opportunities and Challenges in Urban Pest Management.** Robert W. Davis, BASF Specialty Products.
- 1:10 **Termites.** Chris Keefer and Roger E. Gold, Department of Entomology, Texas A&M University.
- 1:30 **Fire Ants in Texas Nursing Homes: Survey of Staff Attitudes and New Training Materials.** Michael E. Merchant, Kimberly Schofield, Elizabeth (Wizzie) Brown, Paul Nester, Charles Helpert, Janet Hurley and Molly Keck, Texas AgriLife Extension.
- 1:50 **History and Distribution of an Invasive *Paratrechina* sp. in Texas.** J.E. Meyers and Roger E. Gold, Department of Entomology, Texas A&M University.
- 2:10 **Highly Defensive Honey Bees.** Tanya Pankiw, Department of Entomology, Texas A&M University.
- 2:30 **Break**

- 2:40 **Exploring the Molecular Basis of Bedbug (*Cimex* sp.) Feeding.** C. Jerry Bowen and Deborah C. Jaworski, Oklahoma State University.
- 3:00 **School IPM and Green Technology.** Janet A. Hurley, Texas AgriLife Extension.
- 3:20 **Natural and Home Remedies for Fire Ant Management: Do They Really Work?** Elizabeth (Wizzie) Brown, Texas AgriLife Extension.
- 3:40 **Pest Control Challenges and Opportunities in Latin America.** Theodore Granovsky, Granovsky Associates Inc.
- 4:00 **New Label Directions-for-Use and Efficacy Data for Termidor Termiticide-Insecticide for Subterranean Termite and Perimeter Pest Control in the United States.** Robert W. Davis, BASF Specialty Products.
- 4:20 **Bifenthrin: A Review of Product Performance Field Tests.** Charles L. Barr.

Monday, 25 February 2008

Symposium: Research and Considerations Regarding Biofuel Cropping Systems – with Particular Reference to Pest Management

Red River Room

Coordinator: Christian Nansen, Texas AgriLife Research

- 1:00 **Introductory Remarks.** Christian Nansen.
- 1:10 **Overview on Overall Policies Driving the Biofuel Industry.** David Gibson, Executive Vice President, Texas Corn Producers Board.
- 1:30 **Overview on Biofuel Research Initiative at AgriLife.** Bill McCutchen, Interim Deputy Associate Director, AgriLife Research.
- 1:50 **Corn Breeding Biofuel and Biofuel Production.** Wenwei Xu, Texas AgriLife Research.
- 2:10 **Potential Effects of Biofuel Corn Production on Insect Pest Management.** Lance Meinke, Department of Entomology, University of Nebraska.
- 2:30 **Break**
- 2:45 **Assessment of Biofuel Potential of Growing Plants.** Christian Nansen, Texas AgriLife Research.
- 3:05 **Biofuel Production from Peanuts and the Importance of Disease-Insect Interactions.** Jason Woodward, Texas AgriLife Extension.

- 3:25 **Importance of Qualitative Composition of Biofuel Crops.** Sergio Capareda, Department of Biological and Agricultural Engineering, Texas A&M University.
- 3:45 **Assessment of Biofuel Production on a Region Scale.** Ted Wilson, Texas AgriLife Research.
- 4:05 **Closing remarks.** Christian Nansen

Tuesday, 26 February 2008

8:00 – 10:00 **Final Business Meeting**
(Red River)

10:00 – 12:00 **Executive Committee Meeting**
(Red River)

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SOUTHWESTERN BRANCH**

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PRESIDENTS AND CHAIRMEN OF SWB-ESA

President	Year	Location
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, Mexico
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, Mexico
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, Mexico
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, Mexico
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	Mexico 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, Mexico
Manning A. Price	1962-63	Houston, TX
Sherman W. Clark	1961-62	Oklahoma City, OK
O.H. Graham	1960-61	San Antonio, TX
Clyde A. Bower	1959-60	El Paso, TX
Paul Gregg	1958-59	Dallas, TX
C.R. Parencia	1957-58	Houston, TX
J.C. Gaines	1956-57	San Antonio, TX
D.C. Earley	1955-56	Ft. Worth, TX
John M. Landrum	1954-55	Houston, TX
D.E. Howell	1953-54	Dallas, TX
P.J. Reno	1952-53	Galveston, TX
R.C. Bushland	1951-52	San Antonio, TX
H.G. Johnston*	1950-51	Dallas, TX

* Southwestern Branch, American Association of Economic Entomologists