

52nd ANNUAL MEETING

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



and the **ANNUAL MEETING** of the
SOCIETY OF SOUTHWESTERN ENTOMOLOGISTS



in conjunction with
the **ANNUAL MEETING** of the **HIGH PLAINS**
ASSOCIATION OF CROP CONSULTANTS

23 – 26 FEBRUARY 2004
HOLIDAY INN PARK PLAZA
LUBBOCK, TEXAS

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.

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PROGRAM SUMMARY

MONDAY, 23 FEBRUARY 2004

9:00 am – 3:00 pm	INSECT EXPO Location: South Plains Fairgrounds
4:00 – 7:00 pm	SWB-ESA and HPACC Registration Location: Second Floor West Foyer
2:00 – 3:30 pm	SWB-ESA Executive Board Meeting Room: Mesquite
	Society of Southwestern Entomologists
3:30 – 4:00 pm	Executive Committee Meeting
4:00 – 5:00 pm	General Membership Business Meeting Room: Mesquite
5:00 – 8:00 pm	Presentation Preview and Collection Desk Location: Second Floor Foyer
5:00 – 10:00 pm	Student Poster Set-up Room: Mesquite
7:00 – 9:30 pm	Student Mixer Room: Atrium Terrace

PROGRAM SUMMARY

TUESDAY, 24 FEBRUARY 2004

7:00 am – 6:30 pm **SWB-ESA and HPACC Registration**
Location: Second Floor West Foyer

7:00 – 9:00 am **Continental Breakfast**
Room: Mesquite

8:00 am – 5:00 pm **Job Opportunity Board**
Room: Mesquite

8:00 am – 5:00 pm **Presentation Preview and Collection Desk**
Location: Second Floor Foyer

9:00 am – 5:00 pm **Spouse/Guest Function**
Meet at 9:00 am in Mesquite Room

8:00 – 9:15 am **Opening Session**
Room: Mahogany

9:15 – 10:00 am **Plenary Keynote Address**
Room: Mahogany

10:30 – 12:00 am **Sorghum Entomology Symposium**
Room: Mahogany

10:00 am – 5:00 pm **Student Competitions:**
 Poster Viewing
 Room: Mesquite
1:30 – 4:30 pm **Oral Presentations**
 Room: Mahogany

5:00 – 7:00 pm **Linnaean Games**
Room: Mahogany

7:00 pm **Banquet and Award Presentations**
Location: Atrium Terrace

PROGRAM SUMMARY

WEDNESDAY, 25 FEBRUARY 2004

7:00 am – 5:00 pm **SWB-ESA and HPACC Registration**
Room: Second Floor West Foyer

7:00 – 9:00 am **Continental Breakfast**
Room: Mesquite

7:00 – 8:00 am **Submitted Posters:**
 Poster set-up
8:00 am – 5:00 pm **Poster viewing**
Room: Mesquite

8:00 am – 5:00 pm **Job Opportunity Board**
Room: Mesquite

9:00 am – 5:00 pm **Spouse/Guest Function**
Meet in Mesquite Room

8:30 – 11:28 am **Submitted Oral Presentations:**
Session 1: **Crop Protection**
 Room: Mahogany
8:30 – 9:40 am Session 2: **Ecology/Behavior and Urban**
 Room: Redwood
10:10 – 11:28 am Session 3: **Biological Control, Medical/
 Veterinary, and Systematics**
 Room: Redwood

1:30 – 4:20 pm **Cotton Entomology Symposium:**
Meeting of the SWB-ESA and High Plains
Association of Crop Consultants
Room: Mahogany

5:00 – 7:00 pm **Linnaean Games**
Room: Mahogany

PROGRAM SUMMARY

THURSDAY, 26 FEBRUARY 2004

8:00 – 10:00 am	SWB-ESA Final Business Meeting Room: Mesquite
10:00 – 12:00 am	SWB-ESA Executive Committee Meeting Room: Mesquite
8:00 am – 5:30 pm	Annual Meeting of the High Plains Association of Crop Consultants Room: Mahogany
12:00 – 1:00 pm	HPACC Luncheon Location: Atrium Terrace
4:30 – 5:30 pm	HPACC Business Meeting Room: Mahogany

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>	<u>One day only</u>
Active ESA member	\$125	30
Student ESA member	40	10
Non-member	140	40
Youth member	10	
Spouse/Guest	35	
Honorary/Emeritus – no charge, but we request that you register		

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

SWB-ESA members may attend the Annual Meeting of the High Plains Association of Crop Consultants, and vice versa, without registering for the second meeting. However, members of the High Plains Association of Crop Consultants must pay \$25 to attend the SWB-ESA banquet on Tuesday evening, and SWB-ESA members must pay \$15 to attend the luncheon of the High Plains Association of Crop Consultants at noon on Thursday.

BANQUET:

The banquet will be in the hotel Atrium Terrace. Extra tickets may be purchased for \$25 at the Registration Desk.

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, continental breakfast and breaks, spouse/guest functions, and retirees' luncheon.

AUDIOVISUAL:

ONLY digital projectors with computers will be provided for oral presentations. Speakers must submit their presentations as Power Point files on CD to the Presentation Preview and Collection Desk 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 and Collection Desk before the session and receive timers and laser pointers.

RETIREE AND SPOUSE/GUEST HOSPITALITY:

Retiree and spouse/guest information is available at the Registration Desk. Please meet in the Mesquite Room at 9:00 a.m. on Tuesday and Wednesday to select such sites to visit as the American Wind Power Center, Buddy Holly Center, Caprock Winery, Lubbock Lake Landmark State Park (archeological site and museum), National Ranching Heritage Center, Silent Wings Museum (WWII glider training), Texas Tech University, and South Plains Mall.

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.

**ENTOMOLOGICAL SOCIETY OF AMERICA
SOUTHWESTERN BRANCH**

2003-2004 OFFICERS AND COMMITTEES

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jdburd@pswcr1.ars.usda.gov

Terry Mize, Past-President

terry_mize@fmc.com

Phillip Mulder, Vice-President

philmul@okstate.edu

Bastiaan (Bart) Drees, Secretary/Treasurer

b-drees@tamu.edu

David Thompson, Secretary/Treasurer Elect

dathomps@nmsu.edu

Marvin Harris, ESA Governing Board Representative

m-harris@tamu.edu

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Ram Shrestha
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POSTER AWARDS COMMITTEE**

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Robert Bowling
Roxanne Bowling
Scott Bundy
Jack Dillwith
Miles Karner
Jerry Michels
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Scott Russell
Pete Teel
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PROGRAM

MONDAY, 23 FEBRUARY 2004

9:00 am – 3:00 pm

INSECT EXPO

Location: South Plains Fairgrounds
Scott Russell, Chair of Insect Expo Committee

Exhibitors:

Lubbock Lake Landmark
Oklahoma State University
Science Spectrum
Tarleton State University
Texas A&M University
Texas Boll Weevil Eradication Foundation
Texas Cooperative Extension
District 2 4-H
Hale-Swisher IPM
Kidz Antz
Lubbock County 4-H
Texas Parks and Wildlife
Texas Tech University (TTU) Museum
TTU Plant and Soil Science Department
West Texas A&M University

4:00 – 7:00 pm

SWB-ESA and HPACC Registration

Location: Second Floor West Foyer

2:00 – 3:30 pm

SWB-ESA Executive Board Meeting

Room: Mesquite

3:30 – 4:00 pm

Society of Southwestern Entomologists:

Executive Committee Meeting

General Membership Business Meeting

Room: Mesquite

5:00 – 8:00 pm

Presentation Preview and Collection Desk

Location: Second Floor Foyer

PROGRAM

MONDAY, 23 FEBRUARY 2004 (Continued)

- 5:00 – 10:00 pm **Student Poster Set-up**
Room: Mesquite
- 7:00 – 9:30 pm **Student Mixer**
Room: Atrium Terrace

PROGRAM

TUESDAY, 24 FEBRUARY 2004

- 7:00 am – 6:30 pm **SWB-ESA and HPACC Registration**
Location: Second Floor West Foyer
- 7:00 – 9:00 am **Continental Breakfast**
Room: Mesquite
- 8:00 am – 5:00 pm **Job Opportunity Board**
Room: Mesquite
- 8:00 am – 5:00 pm **Presentation Preview and Collection Desk**
Location: Second Floor Foyer
- 9:00 am – 5:00 pm **Spouse/Guest Function**
Meet at 9:00 am in Mesquite Room
-
- 8:00 – 9:15 am **SWB-ESA OPENING SESSION:**
Room: Mahogany
- Opening:** SWB-ESA President, John Burd
- Welcome:** Honorable James E. “Pete” Laney,
Texas House of Representatives
- President of ESA:** Kevin Steffey
- ESA Foundation Report:** Frank Gilstrap
- ESA Governing Board Report:**
Marvin Harris
- SWB-ESA Presidential Address:** John Burd
- Necrology Report:** Phillip Mulder

PROGRAM

TUESDAY, 24 FEBRUARY 2004 (Continued)

- 9:15 – 10:00 am **PLENARY KEYNOTE ADDRESS:**
BOLL WEEVIL IN THE HIGH AND
ROLLING PLAINS OF TEXAS: THE
BEGINNING OF THE END, **Don Rummel**,
Professor Emeritus, Texas Agricultural
Experiment Station
Room: Mahogany
- 10:00 – 10:30 am **BREAK**
- 10:30 – 12:00 am **SORGHUM ENTOMOLOGY
SYMPOSIUM:**
Room: Mahogany
- Moderator: **Bonnie Pendleton**,
West Texas A&M University
- SS-1
10:30 – 10:45 am **GRAIN SORGHUM OUTLOOK; Tim Lust;**
National Grain Sorghum Producers
- SS-2
10:45 – 11:05 am **BREEDING SORGHUM FOR RESISTANCE
TO STRESSES; Darrell Rosenow;** Texas
Agricultural Experiment Station
- SS-3
11:05 – 11:20 am **GENOMIC APPROACHES TO STUDY
GREENBUG-SORGHUM INTERACTION;**
Keyan Zhu-Salzman; Texas A&M University
- SS-4
11:20 – 11:40 am **SEED TREATMENTS FOR CONTROL OF
SORGHUM INSECTS; Gerald Wilde;** Kansas
State University

PROGRAM

TUESDAY, 24 FEBRUARY 2004 (Continued)

- SS-5
11:40 – 11:50 am **IMPACT OF NEW INSECTICIDE SEED
TREATMENTS ON YELLOW SUGARCANE
APHID; Roy D. Parker;** Texas Cooperative
Extension
- SS-6
11:50 – 12:00 am **EVALUATION OF PROTECTANTS FOR
STORED SORGHUM INSECT PESTS; Roy
D. Parker;** Texas Cooperative Extension
- 12:00 – 1:30 pm **LUNCH (on your own)**
- 1:30 – 4:30 pm **STUDENT ORAL PRESENTATION
COMPETITION:**
Room: Mahogany
- Moderator: **Bonnie Pendleton**,
Chair of Student Research Paper and
Poster Awards Committee

MASTER'S STUDENTS –

- SO-1
1:30 – 1:42 pm **IMPLICATIONS OF NATURAL ENEMY
STRAIN DIFFERENCES FOR BIOLOGICAL
CONTROL OF AQUATIC WEEDS (*Salvinia*
spp.); Jeremiah Dye¹, Kevin Heinz¹, and John
Jackman²; ¹Texas A&M University and ²Texas
Cooperative Extension**
- SO-2
1:42 – 1:54 pm **SUITABILITY OF PARASITIZED
GREENBUGS, *Schizaphis graminum*
(Rondani), AS A FOOD SOURCE FOR
PREDATORY COCCINELLIDAE; Makuena
Lebusa, Tom Royer, and Kristopher Giles;**
Oklahoma State University

PROGRAM

TUESDAY, 24 FEBRUARY 2004 (Continued)

- SO-3
1:54 – 2:06 pm TRITROPHIC INTERACTION OF RESISTANT SORGHUM, GREENBUGS, AND LADY BEETLES; **Murali Ayyanath**¹, Bonnie Pendleton¹, and G. J. Michels, Jr.²; ¹West Texas A&M University and ²Texas Agricultural Experiment Station
- SO-4
2:06 – 2:18 pm CHARACTERIZING THE OVERWINTERING EMERGENCE BEHAVIOR OF THE ADULT SQUASH BUG; **Jesse Eiben** and Jonathan Edelson; Oklahoma State University
- SO-5
2:18 – 2:30 pm EFFECTS OF CONSTANT TEMPERATURES ON LIFE HISTORY CHARACTERISTICS OF *Lygus elisus* IN THE LABORATORY; **Padma Latha Bommireddy**, Megha Parajulee, and Dana Porter; Texas Agricultural Experiment Station
- SO-6
2:30 – 2:42 pm PREDATION EFFICIENCY OF SELECTED COTTON ARTHROPOD PREDATORS OF BOLLWORM EGGS; **Ram Shrestha**¹, Megha Parajulee¹, and Carlos Blanco²; ¹Texas Agricultural Experiment Station and ²USDA-ARS-SIMRU
- SO-7
2:42 – 2:54 pm PROTEINS IN THE VENOM SAC OF *Solenopsis invicta* QUEENS; **Jilla HaghiPour** and Richard Deslippe; Texas Tech University
- 2:55 – 3:30 pm **BREAK**

PROGRAM

TUESDAY, 24 FEBRUARY 2004 (Continued)

PH.D. STUDENTS –

- SO-8
3:30 – 3:42 pm PRELIMINARY TRIAL FOR EFFECTIVENESS OF ALTERNATIVE CONTROL TREATMENTS FOR PECAN WEEVIL IN PECAN; **Andrine Morrison** and Phillip Mulder; Oklahoma State University
- SO-9
3:42 – 3:54 pm BACTERIAL INDUCED MORTALITY IN THE RED IMPORTED FIRE ANT; **David Melvin** and Richard Deslippe; Texas Tech University
- SO-10
3:54 – 4:06 pm INFLUENCE OF ARTIFICIAL GUIDELINES IN SOIL ON CHANNELING FORAGING SUBTERRANEAN TERMITES (ISOPTERA: RHINOTERMITIDAE); **Kenneth Brown**, Brad Kard, and Mike Doss; Oklahoma State University
- SO-11
4:06 – 4:18 pm SURVEILLANCE FOR WEST NILE VIRUS IN LUBBOCK, TEXAS; **Carrie Bradford**, Marc Nascarella, Teresa Burns, and Eric Marsland; The Institute of Environmental and Human Health, Texas Tech University

PROGRAM

TUESDAY, 24 FEBRUARY 2004 (Continued)

SO-12
4:18 – 4:30 pm
ECTOPARASITE FLEAS (*Siphonoptera* spp.) OF COTTONTAILS (*Sylvilagus* spp.) AND PRAIRIE DOGS (*Cynomys ludovicianus*) INHABITING THE SOUTH PLAINS OF WESTERN TEXAS; **Marc Nascarella**¹, Carrie Bradford¹, Teresa Burns¹, Stephen Cox¹, Eric Marsland¹, Christopher Pepper², and Steve Presley¹; ¹The Institute of Environmental and Human Health, Texas Tech University and ²Texas Commission on Environmental Quality

10:00 am – 5:00 pm
STUDENT POSTER COMPETITION:
Students stand by posters during breaks
Room: Mesquite

SP-1
BIOLOGICAL CONTROL OF *Liriomyza huidobrensis* IN CHRYSANTHEMUM; **Amy Bader**, Kevin Heinz, and Bob Wharton; Texas A&M University

SP-2
EVALUATION OF AND FACTORS AFFECTING THE SUCCESS OF THE BIOLOGICAL CONTROL OF SALT CEDAR (*Tamarix* spp.) ON THE COLORADO RIVER IN TEXAS; **Jeremy Hudgeons**¹, Allen Knutson¹, C. Jack DeLoach², and Kevin Heinz¹; ¹Texas A&M University and ²USDA-ARS

SP-3
HYBRIDIZATION BETWEEN SALT CEDAR LEAF BEETLES USED IN BIOLOGICAL CONTROL; **Beth Petersen** and David Thompson; New Mexico State University

SP-4
EFFECTS OF OKRA-LEAF COTTON ON BENEFICIAL ARTHROPOD POPULATIONS IN NEW MEXICO; **Tamara Booze** and Scott Bundy; New Mexico State University

PROGRAM

TUESDAY, 24 FEBRUARY 2004 (Continued)

SP-5
EVALUATION OF AFLATOXIN ACCUMULATION IN CONVENTIONAL AND TRANSGENIC BT CORN HYBRIDS; **Steve Cox**¹, Greta Schuster¹, Tom Isakeit², and Patrick Porter²; ¹West Texas A&M University and ²Texas Cooperative Extension

SP-6
TRANSGENIC CORN HYBRIDS FOR CONTROL OF WESTERN CORN ROOTWORM; **Meagan Bedwell**¹, Greta Schuster¹, Tom Isakeit², and Patrick Porter²; ¹West Texas A&M University and ²Texas Cooperative Extension

SP-7
WESTERN CORN ROOTWORM BEETLE POPULATIONS IN FIELDS PLANTED TO TRANSGENIC CORN; **Amanda Schroeder** and Gerald Wilde; Kansas State University

SP-8
MORPHOMETRIC, MATING COMPATIBILITY, AND SOYBEAN RESISTANCE EVALUATIONS OF SOYBEAN STEM BORER (COLEOPTERA: CERAMBYCIDAE); **Terutaka Niide**¹, Bonnie Pendleton¹, Robert Bowling², and Roxanne Bowling¹; ¹West Texas A&M University and ²Texas Cooperative Extension

SP-9
GENETIC EVALUATION OF THE ALFALFA WEEVIL IN NEW MEXICO; **Stephanie Redman**, Scott Bundy, Stephen Hanson, and Dennis Sutton; New Mexico State University

SP-10
RESISTANCE OF STORED COWPEAS TO COWPEA WEEVIL (COLEOPTERA: BRUCHIDAE); **Fernando Chitio**¹, Bonnie Pendleton¹, and G. J. Michels, Jr.²; ¹West Texas A&M University and ²Texas Agricultural Experiment Station

PROGRAM

TUESDAY, 24 FEBRUARY 2004 (Continued)

- SP-11 MORPHOLOGICAL VARIABILITY COMPLICATES IDENTIFICATION OF THE FIRE ANTS, *Solenopsis xyloni* AND *S. invicta*; **Alana Jacobson**, David Thompson, Ricardo Ramirez, and Leigh Murray; New Mexico State University
- SP-12 COMPOUNDS EXTRACTED FROM THE LARVAE AND PUPAE OF THE RED IMPORTED FIRE ANT; **Issam Al Dir** and Richard Deslippe; Texas Tech University
- SP-13 EFFICACY OF PHEROMONE-BASED MATING DISRUPTION FOR THE SUPPRESSION OF INDIAN MEALMOTH, *Plodia interpunctella*, (FAMILY: PYRALIDAE) POPULATIONS; **Charles Konemann** and Thomas Phillips; Oklahoma State University
- SP-14 FITNESS OF GREENBUG (HOMOPTERA: APHIDIDAE) ON WILD AND CULTIVATED GRASSES; **Kishan Sambaraju**¹, and Bonnie Pendleton²; ¹Oklahoma State University and ²West Texas A&M University
- SP-15 COTTON APHID POPULATION DYNAMICS IN THE FIELD; **Anand Sapkota** and Megha Parajulee; Texas Agricultural Experiment Station
- SP-16 ODOR MASKING OF VERTEBRATE CARCASSES BY A BURYING BEETLE (*Nicrophorus marginatus*); **Charmaine Woodard-Melvin** and Richard Deslippe; Texas Tech University

PROGRAM

TUESDAY, 24 FEBRUARY 2004 (Continued)

- SP-17 MOSQUITO SURVEILLANCE USED TO IDENTIFY POTENTIAL VECTORS OF THE WEST NILE VIRUS FOR THE EQUINE INDUSTRY IN THE TEXAS HIGH PLAINS; **Alexis Adams**¹, Greta Schuster¹, Jim Olson², and Justin Talley¹; ¹West Texas A&M University and ²Texas A&M University
- SP-18 MONITORING POPULATION TRENDS OF HOUSE FLIES AND STABLE FLIES (DIPTERA: MUSCIDAE) IN TEXAS HIGH PLAINS FEEDLOTS; **Tara Sherrod**, Greta Schuster, David Parker, and Justin Talley; West Texas A&M University
- SP-19 EVALUATION OF THE EFFECTIVENESS OF EQUINE FLY CONTROL PRODUCTS AND THEIR EFFECT ON SKIN SENSITIVITY WHEN APPLIED AT VARIOUS RATES; **Mariette Benage**, Greta Schuster, John Pipkin, and Rebekah Bachman; West Texas A&M University
- SP-20 DELINEATION AND MANAGEMENT OF AN AERIAL COLONY OF *Reticulitermes* sp.; **Jerry Bowen** and Brad Kard; Oklahoma State University
- SP-21 THE IMPACT OF ROUNDUP READY CROPPING SYSTEMS ON SOIL-DWELLING MITE POPULATIONS; **Michal Roberts** and Gerald Wilde; Kansas State University
- SP-22 COLEOPTERAN-SPECIFIC *CRY3Bb1* TOXIN HAS NO ADVERSE EFFECT ON EARTHWORMS EXPOSED TO SOIL CONTAINING CORN ROOTS OR BIOMASS; **Aqeel Ahmad**, Gerald Wilde, and Kun Yan Zhu; Kansas State University

PROGRAM

TUESDAY, 24 FEBRUARY 2004 (Continued)

- 5:00 – 7:00 pm **LINNAEAN GAMES**
Room: Mahogany
- 7:00 pm **BANQUET AND AWARD
PRESENTATIONS**
Location: Atrium Terrace

PROGRAM

WEDNESDAY, 25 FEBRUARY 2004

- 7:00 am – 5:00 pm **SWB-ESA and HPACC Registration**
Room: Second Floor West Foyer
- 7:00 – 9:00 am **Continental Breakfast**
Room: Mesquite
- 8:00 am – 5:00 pm **Job Opportunity Board**
Room: Mesquite
- 9:00 am – 5:00 pm **Spouse/Guest Function**
Meet in Mesquite Room

SUBMITTED POSTER SESSION:

- 7:00 – 8:00 am **Set-up**
- 8:00 am – 7:00 pm **Viewing**
Room: Mesquite

BIOLOGICAL CONTROL:

- P-1 INSECTS ASSOCIATED WITH SALT CEDAR,
Baccharis AND WILLOW IN WEST TEXAS AND
THEIR VALUE AS FOOD FOR INSECTIVOROUS
BIRDS: PRELIMINARY RESULTS; **Mark Muegge**¹,
Allen Knutson¹, Tim Robbins², and Jack DeLoach²;
¹Texas Cooperative Extension and ²USDA-ARS
- P-2 FIRST RELEASE OF *Diorhabda elongata* ON
SALT CEDAR IN NEW MEXICO; **David Thompson**
and Kevin Gardner; New Mexico State University

PROGRAM

WEDNESDAY, 25 FEBRUARY 2004 (Continued)

- P-3 A PRELIMINARY SURVEY OF THE SPIDERS OF COTTON IN NEW MEXICO; **Scott Bundy**, David Richman, and Paul Smith; New Mexico State University
- P-4 BIOLOGICAL CONTROL OF ALFALFA WEEVIL IN NEW MEXICO; **Jane Pierce**, Scott Bundy, Patricia Monk, and Carol Sutherland; New Mexico State University
- P-5 COLONIZATION OF WHEAT AND WHEAT-ALFALFA PLANTINGS BY APHIDS AND THEIR NATURAL ENEMIES IN OKLAHOMA; **Mpho Phofolo**¹, Amber Kelley¹, Norman Elliott², and Kristopher Giles¹; ¹Oklahoma State University and ²USDA-ARS
- P-6 DOES APHID-RESISTANT WHEAT AFFECT THE ABILITY OF LADY BEETLE LARVAE TO CONTROL APHIDS?; **Roxanne Bowling**¹, Bonnie Pendleton¹, Jerry Michels², and Robert Bowling³; ¹West Texas A&M University, ²Texas Agricultural Experiment Station, and ³Texas Cooperative Extension
- P-7 ALTERNATIVES TO ORGANOPHOSPHATES AND CARBAMATES FOR MANAGING APHIDS IN WHEAT AND SORGHUM; **Roxanne Bowling**¹, Bonnie Pendleton¹, Jerry Michels², and Robert Bowling³; ¹West Texas A&M University, ²Texas Agricultural Experiment Station, and ³Texas Cooperative Extension

PROGRAM

WEDNESDAY, 25 FEBRUARY 2004 (Continued)

CROP PROTECTION:

- P-8 BIOTYPIC COMPOSITION OF GREENBUGS COLLECTED FROM CULTIVATED AND NONCULTIVATED HOSTS; **John Burd** and David Porter; USDA-ARS
- P-9 DISTINGUISHING SORGHUM GREENBUG BIOTYPES BY USING AFLP FINGERPRINTING; **Keyan Zhu-Salzman**¹, Haiwen Li¹, and Bonnie Pendleton²; ¹Texas A&M University and ²West Texas A&M University
- P-10 CONTAMINATION OF REFUGES BY Bt GENES FROM TRANSGENIC CORN; **Charles Chilcutt**, Texas Agricultural Experiment Station
- P-11 A PRELIMINARY REPORT ON RESPONSE BY FALL ARMYWORM AND WESTERN BEAN CUTWORM (LEPIDOPTERA: NOCTUIDAE) TO YIELDGARD® AND HERCULEX® CORN; **Robert Bowling**¹, Bonnie Pendleton², and Roxanne Bowling²; ¹Texas Cooperative Extension and ²West Texas A&M University

PROGRAM

WEDNESDAY, 25 FEBRUARY 2004 (Continued)

- P-12 RESPONSE BY WESTERN CORN ROOTWORM (COLEOPTERA: CHRYSOMELIDAE) AND SOUTHWESTERN CORN BORER (LEPIDOPTERA: CERAMBYCIDAE) TO YIELDGARD® ROOTWORM, YIELDGARD® PLUS, AND PONCHO 1250 SEED TREATMENT AND IMPLICATIONS OF IPM FOR MON863 ON ADOPTION OF ROOTWORM-PROTECTED CORN; **Robert Bowling**¹, Roxanne Bowling², and Bonnie Pendleton²; ¹Texas Cooperative Extension and ²West Texas A&M University
- P-13 EVALUATION OF NEW INSECTICIDES FOR CONTROL OF COTTON APHID IN THE COASTAL BEND AND LOWER RIO GRANDE VALLEY OF TEXAS; **Roy D. Parker** and John W. Norman; Texas Cooperative Extension
- P-14 COTTON FLEAHOPPER: EVALUATION OF NEW INSECTICIDES AND IMPACT ON COTTON LINT PRODUCTION; **Roy D. Parker**; Texas Cooperative Extension
- P-15 SCREENING COTTON FOR RESISTANCE TO COTTON FLEAHOPPER; **Allen Knutson**¹, Karthik Mekala², and C. Wayne Smith²; ¹Texas Cooperative Extension and ²Soil and Crop Sciences, Texas A&M University
- P-16 EFFECTS OF THE OKRA-LEAF TRAIT ON IMPORTANT COTTON PESTS OF NEW MEXICO; **Scott Bundy**, Tamara Booze, and Paul Smith; New Mexico State University

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WEDNESDAY, 25 FEBRUARY 2004 (Continued)

- P-17 IMPACT OF REGROWTH COTTON ON BOLL WEEVIL SURVIVAL; **Charles Suh** and Dale Spurgeon; USDA-ARS
- P-18 FACTORS ASSOCIATED WITH ARTHROPOD PEST ABUNDANCE IN A 2-YEAR SURVEY OF WATERMELON PRODUCTION; **Wenhua Lu** and Jonathan Edelson; Oklahoma State University
- P-19 SURVEY OF CLEARWING BORERS IN EAST TEXAS NURSERIES; **Scott Ludwig**; Texas Cooperative Extension
- URBAN:**
- P-20 RESISTANCE TO FALL ARMYWORM (*Spodoptera frugiperda*) AMONG KENTUCKY BLUEGRASS (*Poa pratensis*) CULTIVARS; **James Reinert**¹, James Read¹, and Ron Myers²; ¹Texas Agricultural Experiment Station and ²USDA
- ECOLOGY/BEHAVIOR:**
- P-21 DETERMINATION OF *Lygus* SPECIES AND ASSOCIATED HOST PLANTS IN CENTRAL TEXAS; **Jesus Esquivel**; USDA-ARS-Areawide Pest Management Research Unit
- P-22 TRAP CATCHES OF *Ryzopertha dominica* (Coleoptera: Bostrichidae) IS INFLUENCED BY TRAP DESIGN; **Peter Edde**¹, Michael Toews², and Thomas Phillips¹; ¹Oklahoma State University and ²USDA-ARS-GMPRC

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WEDNESDAY, 25 FEBRUARY 2004 (Continued)

P-23 USE OF COTMAN EXPERT SYSTEM SOFTWARE IN COTTON INSECT MANAGEMENT RESEARCH; **Andy Cranmer**¹, Megha Parajulee², James Leser¹, Ram Shrestha², and Padma Latha Bommireddy²; ¹Texas Cooperative Extension and ²Texas Agricultural Experiment Station

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P-24 THE GENUS *Mecidea* (HETEROPTERA: PENTATOMIDAE) IN NEW MEXICO; **Scott Bundy**¹ and J. E. McPherson²; ¹New Mexico State University and ²Southern Illinois University at Carbondale

P-25 A SECONDARY STRUCTURAL MODEL OF THE 28S rRNA EXPANSION SEGMENTS D2 AND D3 FROM ROOTWORMS AND RELATED LEAF BEETLES (COLEOPTERA: CHRYSOMELIDAE; GALERUCINAE); **Joseph Gillespie**¹, Jamie Cannone², Robin Gutell², and Anthony Cognato¹; ¹Texas A&M University and ²University of Texas

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WEDNESDAY, 25 FEBRUARY 2004 (Continued)

SUBMITTED ORAL PRESENTATIONS:

8:30 – 11:28 am Session 1: **Crop Protection**
Room: Mahogany

8:30 – 9:40 am Session 2: **Ecology/Behavior and Urban**
Room: Redwood

10:10 – 11:28 am Session 3: **Biological Control, Medical/
Veterinary, and Systematics**
Room: Redwood

8:30 – 11:28 am **SESSION 1: CROP PROTECTION**
Room: Mahogany

Moderator: **Tom Royer**,
Oklahoma State University

8:30 – 8:35 am Welcome and Opening Remarks, **Tom Royer**

O-1
8:35 – 8:48 am THE EFFECTS OF SQUASH BUG FEEDING ON WATERMELON GROWTH; **Jonathan Edelson**; Oklahoma State University

O-2
8:48 – 9:01 am INFLUENCE OF TEMPORAL ABUNDANCE AND SPATIAL PATTERNS OF THRIPS AND COTTON FLEAHOPPERS ON EFFECTIVENESS OF SAMPLING METHODS IN TEXAS HIGH PLAINS COTTON; **Ram B. Shrestha** and Megha N. Parajulee; Texas Agricultural Experiment Station

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WEDNESDAY, 25 FEBRUARY 2004 (Continued)

- O-3
9:01 – 9:14 am COTTON ARTHROPOD SEASONAL ACTIVITY PATTERNS IN RELATION TO IRRIGATION MANAGEMENT; **Padma Latha Bommireddy**, Megha. N. Parajulee, and Dana O. Porter; Texas Agricultural Experiment Station
- O-4
9:14 – 9:27 am HOST PLANT RESISTANCE TO WHITEFLIES, *Bemisia tabaci* (Gennadius), IN COTTON RACE STOCKS; **Marvin Harris**, Brandon Ripple, and C. Wayne Smith; Texas A&M University
- O-5
9:27 – 9:40 am RECENT RESEARCH ON STEM BORERS IN TEXAS RICE; **Mo Way**¹, Gene Reagan², and Francis Reay-Jones²; ¹Texas Agricultural Experiment Station and Texas Cooperative Extension, and ²Louisiana Agricultural Experiment Station
- 9:40 – 10:10 am **BREAK**
- O-6
10:10 – 10:23 am POTENTIAL EFFICACY OF SPIDER MITE-RESISTANT GENES IN MAIZE TESTCROSSES; **Edsel Bynum**, Wenwei Xu, and Tom Archer; Texas Agricultural Experiment Station
- O-7
10:23 – 10:36 am REAL-WORLD SPATIAL DISTRIBUTION OF TRANSGENIC AND NON-TRANSGENIC CORN IN LARGE AREAS ON THE HIGH PLAINS OF TEXAS; **Monti Vandiver**, Gregory Cronholm, and Patrick Porter; Texas Cooperative Extension

PROGRAM

WEDNESDAY, 25 FEBRUARY 2004 (Continued)

- O-8
10:36 – 10:49 am EVALUATION OF NEW PYRETHROIDS AND INTREPID FOR CONTROL OF SOUTHWESTERN CORN BORER IN CORN; **Gregory Cronholm**; Texas Cooperative Extension
- O-9
10:49 – 11:02 am TANK-MIX ADJUVANTS, DROPLET SIZE, AND SPRAY DRIFT; **Ivan Kirk**; USDA-ARS
- O-10
11:02 – 11:05 am VACUUM AS A POSTHARVEST METHYL BROMIDE ALTERNATIVE FOR FRESH FRUITS: DISINFESTATION OF *Rhagoletis pomonella* IN APPLES; **Thomas Phillips**¹, Raj Hulasare¹, and Guy Hallman²; ¹Oklahoma State University and ²USDA-ARS
- O-11
11:15 – 11:28 am COMMERCIAL-SCALE EVALUATION OF INSECTOR: A REMOTE SENSING DEVICE FOR STORED GRAIN INSECTS; **Edmond Bonjour**¹, Thomas Phillips¹, Ron Larson², and Dennis Shuman³; ¹Oklahoma State University, ²OPIsystems Inc., and ³USDA-ARS
- 8:30 – 9:40 am **SESSION 2: ECOLOGY/BEHAVIOR AND URBAN**
Room: Redwood
Moderator: **Jesus Esquivel**,
USDA-ARS
- 8:30 – 8:35 am Welcome and Opening Remarks,
Jesus Esquivel

PROGRAM

WEDNESDAY, 25 FEBRUARY 2004 (Continued)

- O-12
8:35 – 8:48 am EVALUATING WEB SITE TRAFFIC FOR THE TAMU ENTOMOLOGY DEPARTMENT; **John Jackman**; Texas Cooperative Extension
- O-13
8:48 – 9:01 am BIOLOGY AND MANAGEMENT OF HIBISCUS BUD WEEVIL, *Athonomus testaceosquamosus*; **Carlos Bogran**; Texas Cooperative Extension
- O-14
9:01 – 9:14 am IMPACT OF RED IMPORTED FIRE ANT, *Solenopsis invicta*, ON DENSITY OF CORN EARWORM, *Helicoverpa zea*, IN CORN IN TEXAS; **Manuel Campos**¹ and Allen Knutson²; ¹Oklahoma State University and ²Texas Cooperative Extension
- O-15
9:14 – 9:27 am ERIOPHYID MITE PESTS IN TEXAS TURFGRASS; **James Reinert**; Texas A&M University
- O-16
9:27 – 9:40 am PERFORMANCE OF THE SENTRICON[®] SYSTEM WITH ESP[®] IN CENTRAL TEXAS WITH NOVIFLUMURON FOR CONTROL OF *Reticulitermes flavipes* (ISOPTERA: RHINOTERMITIDAE); **Thomas Atkinson**; Dow AgroSciences
- 9:40 – 10:10 am **BREAK**

PROGRAM

WEDNESDAY, 25 FEBRUARY 2004 (Continued)

- 10:10 – 11:28 am **SESSION 3: BIOLOGICAL CONTROL, MEDICAL/VETERINARY, AND SYSTEMATICS**
Room: Redwood
Moderator: **Scott Bundy**,
New Mexico State University
- O-17
10:10 – 10:23 am EFFECT OF NEEM-BASED INSECTICIDES ON BEET ARMYWORM (LEPIDOPTERA: NOCTUIDAE); **Sasha Greenberg**¹, Allen Showler¹, and Tong-Xian Liu²; ¹USDA-ARS-APMRU and ²Texas Agricultural Experiment Station
- O-18
10:23 – 10:36 am HOST RELATIONSHIPS OF THE PARASITOID *Anisopteromalus calandrae* (HYMENOPTERA: PTEROMALIDAE); **Mukti N. Ghimire** and Thomas W. Phillips; Oklahoma State University
- O-19
10:36 – 10:49 am BIOLOGICAL CONTROL OF SALT CEDAR: PROGRESS AND PLANS IN TEXAS; **Allen Knutson**¹, Jack DeLoach², and Mark Muegge¹; ¹Texas Cooperative Extension and ²USDA-ARS
- O-20
10:49 – 11:02 am USING THE BLACK SOLDIER FLY TO REDUCE DAIRY CALF WASTES; **Jeffery Tomberlin**; Texas Cooperative Extension

PROGRAM

WEDNESDAY, 25 FEBRUARY 2004 (Continued)

- O-21
11:02 – 11:15 am
BACK IN BLACK: USING THE BLACK SOLDIER FLY TO ESTIMATE POSTMORTEM INTERVALS; **Jeffery Tomberlin**¹ and Heidi Brummond²; ¹Texas Cooperative Extension and ²Tarleton State University
- O-22
11:15 – 11:28 am
WHAT NOW? RECENT PEST DETECTIONS IN NEW MEXICO; **Carol Sutherland**; New Mexico State University
- 11:28 am – 1:30 pm
LUNCH (on your own)
- 1:30 – 4:20 pm
COTTON ENTOMOLOGY SYMPOSIUM:
Meeting of the SWB-ESA and High Plains Association of Crop Consultants

Room: Mahogany

Moderators: **Megha Parajulee**, Texas Agricultural Experiment Station, and **James Leser**, Texas Cooperative Extension
- SC-1
1:30 – 2:00 pm
ECOLOGICAL DIFFERENCES IN *Lygus* BUGS AND MANAGEMENT CHALLENGES FOR THE TEXAS HIGH PLAINS; **Megha Parajulee**; Texas Agricultural Experiment Station
- SC-2
2:00 – 2:20 pm
AN OVERVIEW OF COTTON APHID MANAGEMENT STRATEGIES; **Jeffrey Slosser**; Texas Agricultural Experiment Station

PROGRAM

WEDNESDAY, 25 FEBRUARY 2004 (Continued)

- SC-3
2:20 – 2:50 am
HISTORICAL PERSPECTIVE OF COTTON INSECTS AND THEIR MANAGEMENT IN WEST TEXAS; **James Leser**; Texas Cooperative Extension
- 2:50 – 3:20 pm
BREAK
- SC-4
3:20 – 3:40 pm
WHAT IS THE ROLE OF AN EXTENSION IPM AGENT?; **Brant Baugh**; Texas Cooperative Extension
- SC-5
3:40 – 4:00 pm
WE'RE NOT JUST BUG CHECKERS; **Mark Scott**; Mark Scott Crop Consulting
- SC-6
4:00 – 4:20 pm
CONSULTING: PAST, PRESENT, FUTURE; **Bob Glodt**; Agri-Search, Inc.
- 5:00 – 7:00 pm
LINNAEAN GAMES
Room: Mahogany

PROGRAM

THURSDAY, 26 FEBRUARY 2004

8:00 – 10:00 am	SWB-ESA FINAL BUSINESS MEETING Room: Mesquite
10:00 – 12:00 am	SWB-ESA EXECUTIVE COMMITTEE MEETING Room: Mesquite
8:00 am – 5:00 pm	ANNUAL MEETING OF THE HIGH PLAINS ASSOCIATION OF CROP CONSULTANTS Room: Mahogany
8:00 – 8:10 am	INTRODUCTION
HP-1 8:10 – 8:30 am	PLANT BUG DAMAGE AND COTTON COMPENSATION; James Leser ; Texas Cooperative Extension
HP-2 8:30 – 9:00 am	PINK BOLLWORM THREAT AND CONTROL; Scott Russell ¹ and Brad Lewis ² ; ¹ Texas Cooperative Extension and ² New Mexico State University
HP-3 9:00 – 9:15 am	<i>HELICOVERPA</i> (BOLLWORM) RESISTANCE TO PYRETHROIDS; Patrick Porter ; Texas Cooperative Extension
9:15 – 10:00 am	MODERATED DISCUSSION: LYGUS BUGS, PINK BOLLWORM AND <i>HELICOVERPA</i> RESISTANCE TO PYRETHROIDS
10:00 – 10:30 am	BREAK

PROGRAM

THURSDAY, 26 FEBRUARY 2004 (Continued)

HP-4 10:30 – 10:50 am	BOLL WEEVIL ERADICATION, WHAT NOW?; Charles Allen ; Texas Boll Weevil Eradication Foundation
HP-5 10:50 – 11:20 am	LIBERTY VS. ROUNDUP VS. CONVENTIONAL WEED MANAGEMENT SYSTEMS; Peter Dotray ; Texas Tech University and Texas Cooperative Extension
HP-6 11:20 – 11:40 am	TECHNICAL SERVICE PROVIDER PROGRAM; James Powell ; Powell Ag, Inc.
HP-7 11:40 – 12:00 am	NUTRIENT MANAGEMENT FOR HIGH YIELDING COTTON; Kevin Bronson ; Texas Agricultural Experiment Station
12:00 – 1:00 pm	LUNCH Location: Atrium Terrace
HP-8 1:00 – 1:20 pm	PLANT GROWTH REGULATORS IN PICKER COTTON; Dan Krieg ; Texas Tech University
HP-9 1:20 – 1:40 pm	WATER STRESS RELATED TO COTTON VARIETIES; Randy Bowman ; Texas Cooperative Extension
HP-10 1:40 – 2:00 pm	DRIP IRRIGATION RESEARCH; Jim Bordovsky ; Texas Agricultural Experiment Station
HP-11 2:00 – 2:30 pm	SOURCING ZINC FOR AGRICULTURE; Peter Robinson ; Ontario, Canada
2:30 – 3:00 pm	BREAK

PROGRAM

THURSDAY, 26 FEBRUARY 2004 (Continued)

<p>HP-12 3:00 – 3:30 pm</p> <p>HP-13 3:30 – 3:50 pm</p> <p>HP-14 3:50 – 4:30 pm</p> <p>4:30 – 5:30 pm</p>	<p>PRECISION AG TECHNOLOGY AND PRACTICES; Jon D. Booker and Terry Wheeler; Texas Agricultural Experiment Station</p> <p>POD ROT IDENTIFICATION AND CONTROL IN PEANUTS; Terry Wheeler; Texas Agricultural Experiment Station</p> <p>SAFARI HUNTS; Bill McMillan</p> <p>HPACC BUSINESS MEETING Referee: Chris Locke Room: Mahogany</p>
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*HP – High Plains Association of Crop Consultants Presentation
(Thursday)

SC – Cotton Entomology Symposium Presentation
(Wednesday afternoon)

PRESIDENTS AND CHAIRMEN OF SWB-ESA

President	Year	Location
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

TA-QUE-NE-WHAP AWARD

ADDENDA AND NOTES

Awardee	Year	Affiliation
Manning Price	1978	TAMU
Hugh Graham	1978	USDA
Horace Van Cleave	1987	TAMU
Grant Kinzer	1997	NMSU
Don Rummel	1999	TAMU
Don Peters	2002	OSU

The Ta-que-ne-whap Award (pronounced Ta-k-ne-wa) for Distinguished Leadership and Service honors members who for many years have contributed exceptional leadership and service to the Southwestern Branch of the Entomological Society of America. The name comes from the southern Comanche dialect and means Chief. The southern Comanche tribe dominated the heart of the Branch area before the coming of the Europeans. Comanches were fiercely independent but willing to defend their society, its interests and values regardless of personal risks. The cast bronze bust of an old Indian chief in full headdress symbolizes one who has led and cared for his society for many years, through good and bad times, giving of himself for the betterment of others. His service is etched in the wrinkles of his face, but his eyes look unblinkingly into the future. His full headdress depicts the many leadership roles, recognitions and honors he earned over the years, which validate his sage words of council and guidance. The pedestal is mesquite wood that grows throughout the area and is noted for its ability to survive harsh conditions and flourish under more favorable times. It is a tough wood that weathers well and retains its strength. Under its rough bark often is hidden an inner quality of beautiful grain and color. The base is tipu-tipuwana wood that was imported into the area. The tipu-tipuwana symbolizes one who is open to new concepts and ideas, which, although foreign to him, may have merit and value. Individuals worthy of this award are rare.

(excerpt from detailed description of award)