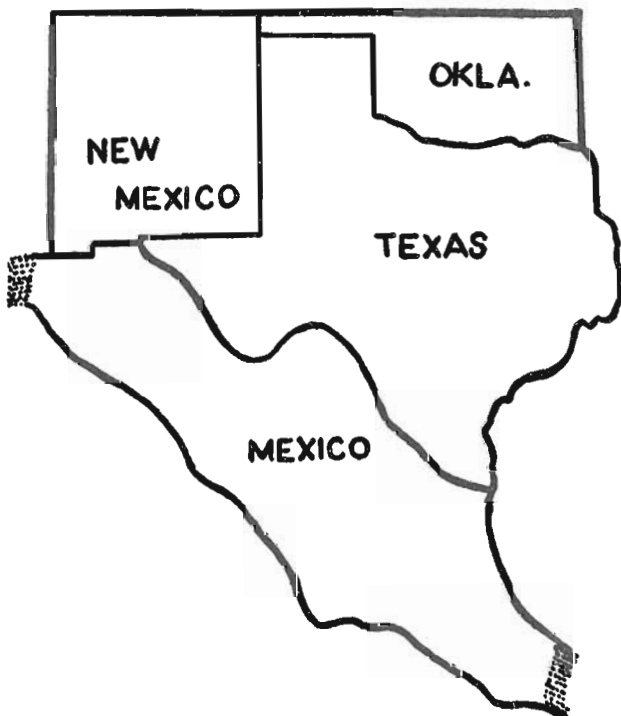


SOUTHWESTERN BRANCH

**ENTOMOLOGICAL SOCIETY
OF AMERICA**

Nineteenth Annual Meeting



SHERATON MOTOR INN
EL PASO, TEXAS

February 14-16, 1971

OFFICERS

CHARLES A. KING, JR., Chairman
Geigy Chemical Company
Waco, Texas

STANLEY COPPOCK, Chairman-elect
Oklahoma State University
Stillwater, Oklahoma

ROGER O. DRUMMOND, Secretary-Treasurer
Entomology Research Division, USDA
Kerrville, Texas

WELDON NEWTON, Secretary-Treasurer-elect
Texas A&M University
College Station, Texas

P. L. ADKISSON, Member, Governing Board
Entomological Society of America
Texas A&M University
College Station, Texas

PROGRAM COMMITTEE

R. L. Ridgway, Chairman	William J. Gladney
Jesus de la Fuente	Jakie A. Hair
John E. George	John G. Thomas
James E. Gillaspay	

LOCAL ARRANGEMENTS COMMITTEE

J. G. Watts, Chairman	John J. Durkin
H. Grant Kinzer	Travis Pate

**LADIES LOCAL ARRANGEMENTS
COMMITTEE**

Mrs. Betty Pate, Chairman	Mrs. Susan Kinzer
Mrs. Sylvia Durkin	Mrs. Nanalie Watts

PROGRAM
NINETEENTH ANNUAL MEETING
Southwestern Branch
ENTOMOLOGICAL SOCIETY
OF AMERICA

Sunday, February 14

- P.M.
4:00- 7:00 Registration — Lobby of Sheraton Motor Inn
7:00- 8:30 Mixer — Medallion/Mayfair Room

Monday, February 15

- A.M.
8:00-12:00 Registration — Lobby of Sheraton Motor Inn
Ladies Program - See Page 11.
8:30 General Session, Mayfair Room
Invocation, Dr. Brodace Elkins, Pastor,
Trinity United Methodist Church, El Paso
Address of Welcome. The Honorable Peter deWetter, Mayor, El Paso
Address of Chairman, Southwestern Branch
Entomological Society of America, Charles
A. King, Jr.
Announcements and Committee
Appointments
Report of the Southwestern Branch
Member of the Governing Board,
Entomological Society of America. P. L.
Adkisson
Remarks of the President, Entomological
Society of America. Robert H. Nelson,
College Park, Maryland
Remarks of the Executive Secretary,
Entomological Society of America. Wallace
P. Murdoch, College Park, Maryland
10:00 Recess
10:30 A Scientific Appraisal of the Chemical
Industries' Future Role in Insect Control.
Daniel MacDougall, Chairman of
Sub-Committee on Pesticides in the
Environment, American Chemical Society,
Kansas City, Missouri
11:15 Biological Control of Insect Pests in
Intensified Agriculture. R. L. Douth, San
Joaquin Valley Agricultural Research and
Extension Center, University of California,
Parlier, California
12:00 Noon Recess

Monday, February 15, Mayfair Room
Medical and Veterinary Entomology
William J. Gladney, Presiding

- P.M.
- 1:10 Effect of Ecosystem Alteration on the Suitability of Woodlots as Tick Habitat. Jakie A. Hair, A. L. Hoch, and R. W. Barker, Dept. Ent., Oklahoma State U., Stillwater, Okla.
- 1:20 Preliminary Observations on the Feasibility of Controlled Burns for Lone Star Tick Control in Woodlots. A. L. Hoch and R. W. Barker, Dept. Ent., Oklahoma State U., Stillwater, Okla.
- 1:30 Population Dynamics of the Horn Fly in Central Texas. S. E. Kunz, **ENT, ARS, USDA**, College Station, Texas, B. F. Hogan and J. L. Eschle, **ENT, ARS, USDA**, Kerrville, Texas
- 1:40 Reinfestation of Cattle by Adult Horn Flies (*Haematobia irritans* L.) Following Insecticidal Sprays. R. R. Blume and B. F. Hogan, **ENT, ARS, USDA**, Kerrville, Texas
- 1:50 Estimating the Physiological Age of Laboratory-Reared Horn Flies. C. D. Schmidt, **ENT, ARS, USDA**, Kerrville, Texas
- 2:00 Notes of Feeding Habits of Horn Flies and Stable Flies Under Laboratory Conditions. R. L. Harris, J. A. Miller and E. D. Frazar, **ENT and AE, ARS, USDA**, Kerrville and College Station, Texas
- 2:10 Movement of Released Horn Flies to Host Animals Under Field Conditions. H. G. Kinzer and J. M. Reeves, Dept. Botany and Ent., New Mexico State U., Las Cruces, New Mexico
- 2:20 Oviposition Response of Screw-worm Flies to Some Natural and Synthetic Materials. J. A. DeVaney, G. W. Eddy, Erasmo Lopez, and B. D. Handke, **ENT, ARS, USDA**, Mission, Texas
- 2:30 Dynamic Population of Adult Screw-worm and Natural Investation of Cows by Screw-worm Larvae at the Southeast of Mexico. Hermenegildo Velasco P., Ing. Agr. and M. Sc., Centro de Investigaciones Agricolas Del Sureste, Campo Cotzxtla, Veracruz, Instituto Nacional de Investigaciones Agricolas S. A. G., Mexico
- 2:40 Effects of Immobilization-range Low Temperatures on Recently Eclosed Screw-worm Flies, *Cochliomyia hominivorax* (Coq.). B. G. Hightower and Jose J. Garcia, **ENT, ARS, USDA**, Mission, Texas
- 2:50 Improvement in Venom Collection from Spiders. C. M. Bush, Dept. Ent., Oklahoma State U., Stillwater, Okla.
- 3:00 Recess

Monday, February 15, Savoy Room
Physiology, Biochemistry, and Toxicology
John E. George, Presiding

- P.M.
1:10 Structure-Activity Relationship of Synergists with Carbaryl Against Larvae of the Bollworm and the Tobacco Budworm. Eluid Cantu, ENT, ARS, USDA, Brownsville, Texas
- 1:20 Factors Affecting Organophosphorus Insecticide Resistance in Tobacco Budworms. C. J. Whitten and D. L. Bull, ENT, ARS, USDA, College Station, Texas
- 1:30 Effect of Age and Sex of Tobacco Budworm Pupae on Sexual Sterility Induced by Combined Treatments of Reserpine and Gamma Rays. Antonio A. Guerra, ENT, ARS, USDA, Brownsville, Texas
- 1:40 Inherited Sterility in Progeny of Irradiated Immature Cabbage Loopers. T. Mete Ercelik, D. T. North and G. Holt, International Atomic Energy Agency and Metabolism & Radiation Research Laboratory, USDA, Fargo, North Dakota
- 1:50 Inherited Sterility in Progeny of Irradiated Male Pink Bollworms. Wen-yi Cheng and D. T. North, Dept. Ent., North Dakota State U. and Metabolism & Radiation Research Laboratory, USDA, Fargo, North Dakota
- 2:00 The Ultrastructure of Fat Body Mitochondria from Cardiotomized and Control *Blaberus discoidalis* Serville. Larry Gene Hazal, Dept. Ent., Texas A&M U., College Station, Texas
- 2:10 Hormonal Control of Respiration in the Fat Body Mitochondria of the Cockroach *Blaberus discoidalis*. V. H. Waddill and L. L. Keeley, Dept. Ent., Texas A&M U., College Station, Texas
- 2:20 Response of Walking Pine Cone Beetles to Host and Beetle Produced Odors. J. M. Reeves and H. G. Kinzer, Dept. Botany and Ent., New Mexico State U., Las Cruces, New Mexico
- 2:30 Antennal Olfactory Responsiveness of the Southern and Western Pine Beetles to Insect and Host Produced Compounds. T. L. Payne, Dept. Ent., Texas A&M U., College Station, Texas
- 2:40 Olfactory Response of *Heydenia unica* C. & D. (Hymenoptera: Pteromalidae) To Host Tree Odors and Pheromones of the Southern Pine Beetle. F. B. Camors, Jr., Dept. Ent., Texas A&M U., College Station, Texas
- 2:50 Evidence of a Sex Pheromone in *Gypsonoma haimbachiana* (Kearfott), (Cottonwood Twig Borer), with a Brief Review of the Damage Done to Nursery Stock by the Larva. J. W. Stewart and T. L. Payne, Dept. Ent., Texas A&M U., College Station, Texas
- 3:00 Recess

Monday, February 15, Mayfair Room
Medical and Veterinary Entomology
Jakie A. Hair, Presiding

- P.M.
3:10 Mating Discrimination in the House Fly. Jean Kauppila Kotchman, South San Antonio High School, San Antonio, Texas
- 3:20 Distribution of Rodent Fleas from the Rio Grande Valley to the Jemez Mountains. G. E. Haas, J. R. Wheeler, R. P. Martin, and B. E. Miller, New Mexico Health and Social Services Dept., Los Alamos, Roswell and Santa Fe, New Mexico
- 3:30 Responses of *Argas cooleyi* (Acarina: Argasidae) to Light. Fred Howell, Texas Tech U., Lubbock, Texas
- 3:40 Responses of *Oeciacus vicarius* (Hemiptera: Cimicidae) to Light. John E. George, Texas Tech U., Lubbock, Texas
- 3:50 The Responses of *Ornithodoros concanensis* to Relative Humidity. Bart Cook, Texas Tech U., Lubbock, Texas
- 4:00 Mate-Seeking by Female Gulf Coast Ticks on a Bovine. W. J. Gladney, ENT, ARS, USDA, Kerrville, Texas
- 4:10 Oviposition of Lone Star Tick. R. O. Drummond, T. M. Whetstone, and W. J. Gladney, ENT, ARS, USDA, Kerrville, Texas
- 4:20 Response of Cattle Fever Ticks to Level of Bovine Host Nutrition. O. H. Graham, W. J. Gladney, and J. L. Trevino, ENT, ARS, USDA, Kerrville, Texas

Monday, February 15, Savoy Room

Ecology, Behaviour, and Bionomics

(Biological Control)

R. L. Ridgway, Presiding

P.M.

- 3:10 Programs on the Biological Control of Insects Carried Out in Mexico. Jose L. Carrillo S., Instituto Nacional de Investigaciones Agricolas, S.A.G., Mexico
- 3:20 Arthropod Sampling in Complex Agroecosystems. J. Ellington, New Mexico State U., Dept. Botany and Ent., Las Cruces, New Mexico
- 3:30 Beneficial Arthropods in Cotton Genotypes. Merle Shepard. Dept. Ent., Texas A&M U., College Station, Texas
- 3:40 Numbers of **Chrysopa** Larvae Required to Control **Heliothis** on Cotton. R. E. Kinzer, ENT, ARS, USDA, College Station, Texas
- 3:50 Physical and Biological Evaluation of an Encapsulated Diet for Rearing Predaceous Insects. P. B. Martin, Dept. Ent., Texas A&M U. and R. L. Ridgway, ENT, ARS, USDA, College Station, Texas
- 4:00 Parasitism Evaluation of **Trichogramma** Wasp to the Cotton Bollworm Eggs in Sonora, Mexico. Francisco Pacheco, Instituto Nacional de Investigaciones Agricolas, Ciudad Obregon, Sonora, Mexico
- 4:10 Use of Controlled Temperature and Light to Manipulate Emergence of **Trichogramma**. R. E. Stinner, Dept. Ent., Texas A&M U., College State, Texas
- 4:20 Photoperiodism in **Trichogramma**. M. Rounbehler and J. Ellington, New Mexico State U., Dept. Botany and Ent., Las Cruces, New Mexico

Monday, February 15, Mayfair Room
Medical and Veterinary Entomology
Jakie A. Hair, Presiding

- P.M.
4:30 Influence of Various Host Species Combinations on Field Populations of Lone Star Ticks Determined by CO₂ Sampling. D. I. Darrow, W. J. Gladney and C. C. Dawkins, **ENT, ARS, USDA**, Kerrville, Texas
- 4:40 Carbon Dioxide Traps as an Improved Survey Technique for Lone Star Ticks. D. R. Kinzer, J. G. Wilson, and J. A. Hair. Dept. Ent., Oklahoma State U., Stillwater, Okla.
- 4:50 The Synthetic Juvenile Hormone for Control of *Bovicola limbata* on Angora Goats. W. F. Chamberlain and D. E. Hopkins, **ENT, ARS, USDA**, Kerrville, Texas
- 5:00 Life History Studies with Laboratory Reared *Bovicola ovis*. D. E. Hopkins, **ENT, ARS, USDA**, Kerrville, Texas
- 5:10 Susceptibility of Mammalian Biting Lice to *Bacillus thuringiensis*: Laboratory Bioassay Procedures and Results. R. E. Gingrich, **ENT, ARS, USDA**, Kerrville, Texas
- 5:20 Use of Dursban in Large Scale Experiments for the Control of the Turkey Chigger, *Neoschongastia americana*. M. A. Price, Dept. Ent., Texas A&M U. and Sidney Kunz, **ENT, ARS, USDA**, College Station, Texas
- 5:30 Preliminary Report on the Biology and Ecology of the Chigger, *Neoschongastia americana*. Ronald Everett, Sidney Kunz, and M. A. Price, Dept. Ent., Texas A&M U. and **ENT, ARS, USDA**, College Station, Texas
- 6:00 Buses will depart from Sheraton Motor Inn for banquet in Juarez, Mexico.

Monday, February 15, Savoy Room

Ecology, Behaviour, and Bionomics
(Biological Control)

R. L. Ridgway, Presiding

P.M.

- 4:30 Oviposition Behavior of the Larval Parasite, **Camponotus perdistinctus**. D. D. Wilson, Dept. Ent., Texas A&M U. and R. L. Ridgway, ENT, ARS, USDA, College Station, Texas
- 4:40 Experiments with Paper-nest Wasps for Control of Injurious Caterpillars. J. E. Gillaspay, Biology Dept., Texas A&M U., Kingsville, Texas
- 4:50 Evaluation of the Mesquite Twig Girdler, **Oncideres rhodosticta** Bates, As a Biological Control Agent for Mesquite. K. L. Polk, D. N. Ueckert, and C. R. Ward, Ent. Sec., Texas Tech U., Lubbock, Texas
- 5:00 **Opsius stactogalus** Feiber, a Key Phytophagous Insect of **Tamarix** spp. in New Mexico. D. R. Liesner and J. G. Watts, Dept. Botany and Ent., New Mexico State U., Las Cruces, New Mexico
- 5:10 The Level of Soybean Looper, **Pseudoplusia includens** (Walker), Parasitism in Three Agricultural Ecosystems in Louisiana. J. G. Burleigh, Dept. Ent., Oklahoma State U., Stillwater, Okla.
- 5:20 Parasites of the Soybean Looper, **Pseudoplusia includens** (Walker), and Their Seasonal Occurrence in Louisiana. J. G. Burleigh, Dept. Ent., Oklahoma State U., Stillwater, Okla.
- 6:00 Buses depart from Sheraton Motor Inn for banquet in Juarez, Mexico.

Tuesday, February 16, Mayfair Room

Crop Protection Entomology
John G. Thomas, Presiding

- A.M.
8:00 The Potential of Resistant Cottons in the Suppression of Populations of *Heliothis* Spp. M. J. Lukefahr and T. N. Shaver, **ENT, ARS, USDA**, Brownsville, Texas
- 8:10 The Effects of Manual Damage to Fruits and Leaves on the Production of Cotton. Keir Byerly, Instituto Nacional de Investigaciones Agricolas, Ciudad Obregon, Sonora, Mexico
- 8:20 A Summary of Three Years of Research Conducted to Develop Slow Release Formulations of Aldicarb. J. R. Coppedge, R. A. Stokes, and R. L. Ridgway, **ENT, ARS, USDA**, College Station, Texas
- 8:30 Evaluation of Three Aldicarb Formulations for Cotton Insect Control in a Field Test. J. W. Davis and C. B. Cowan, Jr., **ENT, ARS, USDA**, Waco, Texas
- 8:40 Aldicarb Treatment for the Early Season Control of the Boll Weevil - Rolling Plains of Texas. W. F. Helms, **PPD, ARS, USDA**, Lubbock, Texas
- 8:50 Response of Bollworm and Predaceous Arthropod Populations to Aldicarb Treatments in Cotton. D. R. Rummel and R. E. Reeves, Texas A&M U., Agr. Res. and Ext. Center, Lubbock, Texas
- 9:00 Insecticides Evaluated in Field Tests Against Cotton Insects, Waco Area, Central Texas, 1970. C. B. Cowan and J. W. Davis, **ENT, ARS, USDA**, Waco, Texas
- 9:10 Development of the Tobacco Budworm Problem in Cotton Fields of the Central Brazos Valley 1962-1970. R. L. Hanna, Dept. Ent., Texas A&M U., College Station, Texas
- 9:20 A Control Strategy for the Tobacco Budworm in the Lower Rio Grande Valley. P. L. Adkisson, Dept. Ent., Texas A&M U., College Station, Texas
- 9:30 1970 High Plains Boll Weevil Control Program. W. H. Hare, **PPD, ARS, USDA**, San Antonio, Texas
- 9:40 The Use of Boll Weevil Pheromone Traps in Monitoring Diapause Boll Weevil Control Programs in South Texas. Charles L. Cole, Texas Agr. Ext. Service, Gonzales, Texas
- 9:50 Results in 1970 with Supracide on Pests of Cotton in Torreon, Mexico. J. Hernandez Corzo, Geigy Mexicana, Mexico, D. F.
- 10:00 Recess

Tuesday, February 16, Savoy Room
Ecology, Behavior, and Bionomics
Jesus de la Fuente, Presiding

- A.M.
8:00 Comparison of Mating Behavior of a Laboratory and a Field Strain of Tobacco Budworm. J. R. Raulston, ENT, ARS, USDA, Brownsville, Texas
- 8:10 Acoustic Communication in the Beet Leafhopper. J. W. Smith, Jr., Dept. Ent., Texas A&M U. College Station, Texas and G. P. Georghion, U. of Calif., Riverside, Calif.
- 8:20 Behavior in the Range Caterpillar Adult (*Hemileuca oliviae* Cockerell). J. G. Watts and D. R. Liesner, Dept. Botany and Ent., New Mexico State U., Las Cruces, New Mexico
- 8:30 Geo-Orientation in Sod Webworm Moths. C. S. Crawford, U. of New Mexico, Albuquerque, New Mexico
- 8:40 Biology of the Black Cutworm on Artificial Media. Erwin E. Latham and N. M. Randolph, Dept. Ent., Texas A&M U., College Station, Texas
- 8:50 Pupal Size and Potential Fecundity of *Rhyacionia neomexicana* (Dyar) (Lepidoptera: Oleuthreutidae) D. T. Jennings, Rocky Mtn. Forest & Range Exp. Station, Albuquerque, New Mexico
- 9:00 Advances in Environmental Chamber Construction. W. Atmar and J. Ellington, Dept. Botany and Ent., New Mexico State U., Las Cruces, New Mexico
- 9:10 Chromosomal Comparisons of Greenbug Biotypes. Z. B. Mayo, Dept. Ent., Oklahoma State U., Stillwater, Okla.
- 9:20 Cotton Fleahopper Infestations in Glabrous and Hairy Cotton. James Robinson and J. K. Walker, Dept. Ent. Texas A&M U., College Station, Texas
- 9:30 External Anatomy & Host Relationships of Mites of the Family Paramegistidae Tragardh (Acarina). W. J. Voss, Curator of Natural Science, Ft. Worth Museum of Science & History, Fort Worth Texas and Dept. Biol., Texas Tech U., Lubbock, Texas
- 9:40 Comparison of Arctic and Antarctic Mites, Insects and Habitats. R. W. Strandtmann, Texas Tech U., Lubbock, Texas
- 9:50 The Instars of *Nanorchestes antarcticus*. K. L. Lindsay, Institute of Polar Studies, Columbus, Ohio
- 10:00 Recess

Tuesday, February 16, Mayfair Room
Symposium on Insect Behavior and Reproduction

- A.M.
10:20 Moderator, O. P. Breland, Dept. Zoology, U. of Texas, Austin, Texas
- 10:30 Mating Behavior and Genetical Control of Mosquitoes. G. B. Craig, Dept. Biology, U. of Notre Dame, Notre Dame, Indiana
- 10:55 Mating Behavior in Normal and Irradiated Lepidopterous Insects. D. T. North, Metabolism and Radiation Research Laboratory, USDA, Fargo, N.D.
- 11:25 Mating Behavior and Reproduction in Cockroaches. R. H. Barth, Dept. Biology, U. of Texas, Austin, Texas
- 12:00 Recess

LADIES PROGRAM

Monday, February 15, — 9:00 a.m.

Meet in lobby of Sheraton Motor Inn for trip to the Pronof Center in Juarez, Mexico, Museum of Arts and Crafts, and for relaxed shopping in dozens of interesting stores. Lunch and transportation will be furnished. Also, visit the LaVillita Shopping Center, a quaint "reproduction" of early El Paso.

Tuesday, February 16, Mayfair Room:
Symposium on Insect Behavior and Reproduction

A.M.
10:20 Symposium (See adjacent Page)
12:00 Recess

Tuesday, February 16, Mayfair Room

Crop Protection Entomology
Joe Ellington, Presiding

P.M.

- 1:10 Mite Control on Grain Sorghum in West Texas. C. R. Ward, E. W. Huddleston, J. C. Owens, Donald Ashdown, and L. G. Richardson, Texas Tech. U., Lubbock, Texas
- 1:20 Injurious Insects Attacking Cultivated Sunflowers. R. L. Phillips and N. M. Randolph, Dept. Ent., Texas A&M U., College Station, Texas
- 1:30 Chemical Control with Supracide of *Colaspis flvida* (Chrysomelidae) Attacking Corn Near Guadalajara, Mexico. W. E. Rose, Geigy Mexicana, Mexico, D. F.
- 1:40 Field Comparisons of Insecticidal Sprays for Control of Four Tomato Insects in South Texas. J. A. Harding, Texas A&M U. Agr. Res. and Ext. Center, Weslaco, Texas
- 1:50 Chemical Control of the Bean Leafhoppers *Empoasca* spp. in El Bajio Area of Mexico. Gabriel Diaz, CIAB, Celaya, GTO., Mexico.
- 2:00 1970 Insecticide Evaluation Against Pecan Insect Pests. H. W. Van Cleave, Dept. Ent., Texas A&M U., College Station, Texas
- 2:10 Control of Mites in Citrus with Acarol Acaracide. B. E. Holt and A. J. Becton, Geigy Agricultural Chemicals, Division of CIBA-Geigy Corporation, Ardsley, New York.
- 2:20 *Saissetia miranda*, a Recently-found Scale Insect on Texas Grapefruit. H. A. Dean, G. DeLotto and W. G. Hart, Texas A&M U. Agr. Res. Center, Weslaco, Texas; Plant Protection Res. Inst., Pretoria, South Africa; **ENT, ARS, USDA**, Weslaco, Texas
- 2:30 New Trends and Problems in Plant Quarantine Entomology. R. M. Eads and C. K. Sato, **PQ, ARS, USDA**, El Paso, Texas
- 2:40 Insect Infestation in High Density Plantings of Dwarf Cottons. Roger Bradshaw, J. K. Walker, and G. A. Niles, Dept. Ent. and Dept. of Soils and Crops Sciences, Texas A&M U., College Station, Texas
- 2:50 Final Business Meeting, Mayfair Room

Tuesday, February 16, Savoy Room
Ecology, Behavior, and Bionomics
James E. Gillaspay, Presiding

- P.M.
- 1:10 Insect Populations on a Southern Mixed Prairie. H. N. Howell, Jr., W. J. Fournier, E. W. Huddleston, C. R. Ward, and C. W. O'Brien, Ent. Sec., Texas Tech U., Lubbock, Texas
- 1:20 Effect of the First Killing Frost on Rangeland Insect Populations. W. J. Fournier, H. N. Howell, Jr., E. W. Huddleston, C. R. Ward, and C. W. O'Brien, Ent. Sec., Texas Tech U., Lubbock, Texas
- 1:30 The Effect of Plant Frequency and Certain Ecogenetic Variations on Feeding Habits of Rangeland Acrididae. D. N. Ueckert, Ent. Sec., Texas Tech U., Richard M. Hansen and Charles Terwilliger, Jr., Range Science Dept., Colorado State U., Fort Collins, Colorado
- 1:40 Use of Sequential Sampling for Making Treatment Decisions on *Heliothis* Species on Cotton. Winfield Sterling, Dept. Ent., Texas A&M U., College Station, Texas
- 1:50 Sampling the Cotton Fleahopper on Cotton and Croton. Ted Dupnik, Dept. Ent., Texas A&M U., College Station, Texas
- 2:00 Changes in Insect-plant Relationships of Three Phloem Feeding Insects on Endemic and Adventive *Cupressus* Species in California. G. W. Frankie, Dept. Ent., Texas A&M U., College Station, Texas
- 2:10 Population Dynamics of the Sorghum Greenbug. D. G. Bottrell, Texas A&M U. Agr. Res. and Ext. Center, Lubbock, Texas
- 2:20 Spring Emergence Patterns of Boll Weevils From Various Overwintering Habitats. J. R. White, Texas A&M U. Agr. Res. and Ext. Center, Lubbock, Texas
- 2:30 Boll Weevil Movement Between Cotton and Hibernation Sites. D. S. Moody, Texas A&M U. Agr. Res. and Ext. Center, Lubbock, Texas
- 2:40 Competitiveness of CO^{60} -Irradiated and Non-irradiated Tobacco Budworm Moths and Their Mating Behavior. D. A. Wolfenbarger and A. A. Guerra, ENT, ARS, USDA, Brownsville, Texas
- 2:50 Final Business Meeting, Mayfair Room