

71st Annual Meeting

Georgia Entomological Society



May 16th – 18th, 2007

***Georgia Center for Continuing Education
Athens, Georgia***

**GEORGIA ENTOMOLOGICAL SOCIETY
PRESIDENT
2006-2007**



JOHN ALL

Welcome to the University of Georgia, Center for Continuing Education for our 71st meeting of the Georgia Entomological Society. We have a program of relative topics in entomology for the many professional entomologists, students, and others interested in insects in Georgia. On Wednesday afternoon we will have our traditional **Bug Run and Golf Tournament**. The meeting Thursday will start with the Founder's Lecture honoring Dr. Jerry Payne and presented by Dr. Ted Cottrell. In his tenure with the USDA Southeastern Fruit and Tree Fruit Laboratory during 1969 through 1994, Dr. Payne was known for his energy and enthusiasm in many diverse entomological and biological activities and was active in numerous organizations including GES. We are honoring two Fellows of GES this year, Dr. Jim Dutcher and Dr. Keith Griffith. Both have been stalwart supporters and contributors to our society for many years. The special topics symposium centers on invasive pests. Following our industry panel, we will have a wide variety of entomological topics presented in oral papers and posters including the student competition. The luncheon will also include a slideshow with the photo contest submissions for this year, and the student awards for 2007 will be presented at the evening reception.

John All is a Professor of Entomology in Athens. He created and has taught the courses in Insect Pest Management (ENTO 3740), Integrated Pest Management (ENTO (CRSS/PATH) 4740/6740), and Pesticides and Transgenic Crops (ENTO (CRSS/PATH) 4250/6250) for many years and is the graduate coordinator of the Master of Plant Protection and Pest Management (MPPPM) Program. He has been major advisor of 11 Ph.D., 14 M.S. and 23 MPPPM students and served on the advisory committee of 111 graduate students. He has 418 publications from an IPM research program.

SCHEDULE OF EVENTS

Wednesday May 16, 2007

GES Golf Tournament	12:00 pm, UGA Golf Course. Stormy Sparks
Entomology Run/Walk	Meet in Georgia Center lobby at 4:00 pm, John All
Executive Committee	Georgia Center lobby 7:30 – 8:30 pm

Thursday, May 17, 2007

Georgia Center for Continuing Education, Room Q

7:30 – 8:30 am	Registration, Conference Registration Desk
7:30 – 8:30 am	Poster Set Up, Concourse Area Adjacent to Room Q
8:30 – 5:00 pm	Poster Displays, Concourse Area Adjacent to Room Q
8:00 – 8:30 am	Welcome and Announcements, Room Q
8:30 – 9:00 am	2007 Founders Lecture
9:00 – 9:30 am	Industry Panel
9:30 – 9:50 am	Break
9:50 – Noon	Symposium – Contemporary Topics in Invasive Species Management
Noon – 1:30 pm	Luncheon & Photo Salon (recognition of 2007 Fellows), Banquet Area
1:30 – 1:50 pm	M.S. Student Paper Competition
1:50 – 3:00 pm	Ph.D. Student Paper Competition
3:00 – 3:20 pm	Break
3:20 – 4:00 pm	Contributed Papers
6:30 – 7:30 pm	Reception & Student Award Recognitions, Concourse Area Adjacent to Room Q

Dinner on your own

Friday, May 18, 2007

Georgia Center for Continuing Education, Room Q

7:30 – 8:30 am	Registration, Conference Registration Desk
8:00 – Noon	Poster Displays, Concourse Area Adjacent to Room Q
8:00 – 8:30 am	Authors at Posters
8:30 – 9:40 am	Contributed Papers
9:40 – 10:00 am	Break
10:00 – 11:00 am	Contributed Papers
11:00 – Noon	Business Meeting
Noon	Adjourn

**GEORGIA ENTOMOLOGICAL SOCIETY
2007 FOUNDER HONOREE**



JERRY A. PAYNE

Jerry A. Payne was born in the Blue Ridge Mountains of northern Virginia approximately 70 years ago. He attended local public schools before earning degrees from Virginia Polytechnic Institute, University of Tennessee and Clemson University. His early academic pursuits were in the areas of pre-medicine, mammalogy, speleology, forensic entomology, radiation ecology, radioactive waste disposal and wildlife biology.

Jerry served as a research entomologist at the USDA Southeastern Fruit and Tree Nut Research Laboratory in Byron, GA, from 1969 to 1994, studying the biology and management of the mite and insect pests of blueberries, peaches, plums, nectarines, pecans, and Chinese chestnuts in the southeastern United States. Jerry also researched the production, entomology, and nutrient value of apples, Allegheny chinkapins, deerberries, mayhaws, pawpaws, Oriental persimmons, Asian pears, sparkleberries, hardy passion fruit and flowering quince. For a 5 year stint in his career, he served as an apple breeder, releasing 'Early Thompson' and 'Hardy Cumberland' jointly with the University of Tennessee. In addition, he has served on collection teams for strawberry, hickory, pecan, blueberry, pawpaw, and walnut germplasm from the United States, Mexico, China, and Vietnam. Jerry was a wildlife biologist in the Non-Game Endangered Wildlife Program for the Georgia Department of Natural Resources from 1994 to 1997. Jerry published over 320 papers and abstracts and he made over 175 research presentations at field days, workshops, technical conferences, seminars, and scientific meetings, 90 of which were by invitation.

Jerry conducts and/or participates in 8 North American Butterfly Association 4th of July Butterfly Counts in Georgia. He and wife Rose document butterfly occurrence in 15 central Georgia counties for "The Georgia Butterflies" web site. Jerry has a beetle, 2 millipedes, a protozoan, an isopod and a spider named in his honor.

**GEORGIA ENTOMOLOGICAL SOCIETY
2007 FOUNDERS' LECTURER**



TED COTTRELL

Ted Cottrell grew up on a farm located near the Mammoth Cave region of Kentucky. There he gained valuable experience regarding the economic realities of production agriculture as related to burley tobacco and beef cattle. This background served to start his career path as a Research Entomologist with the USDA Agricultural Research Service. Ted received a B.S. in Biology from the University of Kentucky in 1990, a M.S. in Entomology from Auburn University in 1994, and a Ph.D. in Entomology from the University of Kentucky in 1998. He joined the USDA-ARS SE Fruit and Tree Nut Research Laboratory at Byron, GA in 1998.

Dr. Cottrell's current assignment is to conduct entomological research on pecan and peach. His research with pest species has included the bionomics and biological control of both the pecan weevil and plum curculio, landscape distribution of *Euschistus* spp. stink bugs, alternative management strategies for pecan aphids and both mating disruption and biological control for management of sesiid borers attacking peach. His work with natural enemies continues to examine the interaction of the exotic multicolored Asian lady beetle with native coccinellids, differential susceptibility of native and exotic coccinellids to entomopathogens and methods to increase natural enemy abundance in orchard settings.

Dr. Cottrell collaborates widely with fellow researchers and their projects have been funded through competitive grants including the Pest Management Alternatives Program (PMAP), Risk Avoidance and Mitigation Program (RAMP), EPA – Strategic Agriculture Initiative, Sustainable Agriculture and Research Education (SARE), SE Pecan Growers Association and the Georgia Agricultural Commodity Commission for both peach and pecan. His publications include 25 peer-reviewed research articles along with a number of abstracts, proceedings and trade journal articles.

GEORGIA ENTOMOLOGICAL SOCIETY FOUNDERS' LECTURE SERIES

The Georgia Entomological Society recognizes significant and selfless contributions to science and the GES by means of the GES Founders' Lecture Series, a program that the society began in 1990. The Founders' Lecture serves to honor the individual to whom the lecture is dedicated, and additionally serves to recognize a scholar/researcher of the Society who has contributed significantly and historically to the advancement of our science and/or whose research is at the cutting edge of his/her subdiscipline.

1990 Founder and Lecturer
Theodore L. Bissell, presented by W. Louis Tedders
1991 Founder and Lecturer
Horace O. Lund, presented by Preston E. Hunter
1992 Founder and Lecturer
Hamlin H. Tippins, presented by Wayne A. Gardner
1993 Founder and Lecturer
U. Eugene Brady, Jr., presented by C. Wayne Berisford
1994 Founder and Lecturer
Cedric R. Jordan, presented by T. Don Canerday
1995 Founder and Lecturer
Clifford M. Beckham, presented by Herb Womack
1996 Founder and Lecturer
Oliver I. Snapp, Sr., presented by Carroll E. Younce
1997 Founder and Lecturer
T. Don Canerday, presented by Max H. Bass
1998 Founder and Lecturer
Loy W. Morgan, presented by Max H. Bass
1999 Founder and Lecturer
William Franklin Turner, presented by Dan L. Horton
2000 Founder and Lecturer
Preston E. Hunter, presented by Raymond Noblet
2001 Founder and Lecturer
Harry O. Yates, III, presented by James L. Hanula
2002 Founder and Lecturer
Alton N. Sparks, presented by Beverly Sparks
2003 Founder and Lecturer
James H. Oliver, Jr., presented by Richard L. Osburn
2004 Founder and Lecturer
Sturgis McKeever, presented by Frank E. French
2005 Founder and Lecturer
Herbert H. Ross, presented by J. Bruce Wallace
2006 Founder and Lecturer
Gary A. Herzog, presented by Max H. Bass
2007 Founder and Lecturer
Jerry A. Payne, presented by Ted Cottrell

2007 FELLOWS OF THE GEORGIA ENTOMOLOGICAL SOCIETY

Two members of the Society are recognized as Fellows of the Georgia Entomological Society at this meeting, Dr. James Dutcher and Dr. Keith Griffith. Such recognition is reserved for individuals who have made significant contributions in entomological teaching, research, extension, or administration.

JAMES DUTCHER



I became interested in agriculture in 1971 as a senior in college while working as a student assistant in a lab that measured sublethal effects of herbicides on crop plants and effects of herbicides on algae growth in rivers near farms. After graduation, I went to work as a research assistant with Dr. Howitt along with three other graduate students on fruit crops. We worked on insect and mite problems of all the different fruit crops grown along the Lake Michigan coastline from apples near Kalamazoo to grapes in Pentwater to cherries near Traverse City. I was finishing up my paper and coursework and Dr. Howitt advised that I go to UGA to work with Dr. All. A research assistantship was posted in the Entomology Department Office to work on grape root borers and I went to UGA in 1975 and worked for three summers on grape root borer biology and control in vineyards in northern Georgia. Dr. All had several graduate students and we had a great time working together on different projects in insect pest management on corn and grapes. I began working with Georgia pecan growers in 1978 at the Coastal Plain Experiment Station and I do a series of field experiments each season to test the efficacy of insecticides and biological control agents. Over several seasons, these experiments have resulted in some fairly effective control methods that are used across Georgia. Georgia pecan growers now have at least one and usually several effective controls for all major insect and mite pests that occur in Georgia. Initial problems with insecticide resistance, resurgence and replacement have been quelled by new pest management schemes that have reduced the frequency of insecticide sprays or replaced broad spectrum sprays with either selective insecticides and miticides or biological controls. In recent years I have begun to work on small fruit crops in southern Georgia. Gerard Krewer and I have developed a chemical control for Pierce's Disease on bunch grapes and controls for ground pearls on blueberries. I have also developed effective biological control systems for pecan aphids and pecan mites by combining predator releases and intercrops.

KEITH GRIFFITH



Keith Griffith received his B.S. degree in Biology (Entomology Major) in 1972 and M.S. degree in Entomology (minor in Plant Pathology) from Clemson University in 1974. He began his career in 1974 as an assistant county extension agent (Clemson Univ.) in Colleton County, SC and then moved to Florence, SC in 1976 as an IPM Extension Entomologist – Clemson University on cotton and other row crops. He was responsible for training and supervising cotton scouts in the Pee Dee Region and extension insect control recommendations for tobacco. In the fall of 1977, Keith joined Pennwalt Corporation as a Technical Service / R&D Representative covering 7 southeastern

states. In 1981, he joined Thompson Hayward Chemical Co. (T-H) as Technical / R&D representative for Alabama and the Florida panhandle. In 1982, (T-H) was purchased by Uniroyal Chemical Company. Keith transferred to Orlando, Florida in 1983, and has been with the Uniroyal Chemical Company organization (currently called Chemtura Corporation) for 25 years as Technical Sales Service / R & D representative till the present time working various state territories in the southeast. He has helped develop and label uses for various insecticides/ acaricides (Dimilin, Micromite, Comite, Omite, Acramite, Diamond, and Rimon) in the US as well as herbicides, fungicides, and plant growth regulators. Keith has presented, authored, and co-authored a number of technical papers at various meetings over the years, and he received the 2001 Technical Achievement Award for Crop Protection Division – Crompton Corporation (now Chemtura). During his career, he has been a long time member of the Entomological Society of America, Southeastern Branch – ESA, the Florida Entomological Society (FES), the Georgia Entomological Society (GES), the South Carolina Entomological Society, and other agricultural related organizations. He has served on a number of ESA- SE Branch committees over the years, most recently SEB nominating committee chairman (2007). He has actively served on various FES and GES committees over the years. In 1994-95, he was honored to serve as President of the Georgia Entomological Society at the Albany, GA meeting.

FELLOWS OF THE GEORGIA ENTOMOLOGICAL SOCIETY

1991	James H. Oliver, Jr	2003	Ronald D. Oetting
1992	Preston E. Hunter	2004	Frank E. French
1993	Alton N. Sparks	2005	C. Wayne Berisford
1994	J. Bruce Wallace	2005	Daniel V. Hagan
1995	Harry O. Yates, III	2006	Wayne Gardner
1998	Sturgis McKeever	2006	Lance Peterson
2000	Rudolph T. Franklin	2007	James Dutcher
2001	W. Joe Lewis	2007	Keith Griffith
2002	Richard B. Chalfant		

Thursday, May 17, 2007

OPENING SESSION GEORGIA CENTER, ROOM Q

President John All, presiding

7:30 – 8:30 am	Registration, Conference Registration Desk
8:30 – 5:00 pm	Poster Displays, Concourse Area Adjacent to Room Q
8:00 – 8:30 am	Welcome and Announcements, Room Q
8:30 – 9:00 am	GES 2007 Founders Lecture Honoring Jerry A. Payne Presented by <i>Ted Cottrell</i>
9:00 – 9:30 am	Industry Panel Moderator: <i>Bo Braxton</i> (Dow AgroSciences) <i>Herb Young</i> (Bayer) <i>James Hadden</i> (Syngenta) <i>Tony Weiss</i> (Dow AgroSciences) <i>Keith Griffith</i> (Chemtura) <i>Sandy Newell</i> (BASF)
9:30 – 9:50 am	Break
9:50 – Noon	Symposium – Contemporary Topics in Invasive Species Management Moderator: <i>Kris Braman</i>
9:50	Invasive Species: Why Are We Concerned and What Are We Doing About It In Georgia. <i>Keith Douce</i> (University of Georgia, Tifton)
10:15	Regulatory and Economic Impacts of Exotic Invasive Plant Pests on Agroindustries. <i>Mike Evans</i> (Georgia Department of Agriculture)
10:40	The Redbay Ambrosia Beetle and Laurel Wilt Disease – An Exotic End for a Native Tree? <i>Jim Hanula</i> (USDA Forest Service, Athens), <i>Bob Rabaglia</i> (USDA Forest Service, Washington, DC), and <i>Steve Fraedrich</i> (USDA Forest Service, Athens)
11:05	Continuing the Fight: Controlling Hemlock Woolly Adelgid in the Southern Appalachians <i>Tom W. Coleman</i> and <i>C. Wayne Berisford</i> (University of Georgia, Athens)
11:30	The Red Imported Fire Ant: Current Status and Strategies. <i>Wayne Gardner</i> (University of Georgia, Griffin)

Noon – 1:30 pm	Luncheon and Photo Salon , Banquet Area (recognition of 2007 Fellows) Moderator: <i>Stormy Sparks</i>
Thursday, May 17, 2007 GEORGIA CENTER, ROOM Q	
M.S. STUDENT PAPER COMPETITION Moderator: <i>David Buntin</i>	
1:30	Persistence of Two Entomogenous Fungi in Soil Amendments for Control of the Pecan Weevil (Coleoptera: Curculionidae). <i>Erika Scocco</i> , Wayne Gardner (University of Georgia, Griffin), and David Shapiro-Ilan (USDA-ARS, Byron)
1:40	Persistence of Inoculated Salmonella in Adult Darkling Beetles, <i>Alphitobius diaperinus</i> (Coleoptera: Tenebrionidae). <i>A.J. Roche</i> (University of Georgia, Athens), L.J. Richardson, N.A. Cox (USDA-ARS, PMSRU, Athens), N.C. Hinkle (University of Georgia, Athens), R.J. Buhr, and G.R. Siragusa (USDA-ARS, PMSRU, Athens)
PH.D. STUDENT PAPER COMPETITION	
1:50	The Evolution of Ladybird Beetles (Coleoptera: Coccinellidae): Reconstructing Phylogeny Based on Molecular Data. <i>Adriano Giorgi</i> (University of Georgia, Athens)
2:00	Sacred Systematics: Phylogeny and Classification of Noviiini (Coleoptera: Coccinellidae). <i>Juanita A. Forrester</i> and Joseph V. McHugh (University of Georgia, Athens)
2:10	Neuropeptide F Sequence from the Termite, <i>Reticulitermes flavipes</i> (Isoptera: Rhinotermitidae). <i>Andrew B. Nuss</i> , Brian T. Forschler, Joe W. Crim, and Mark R. Brown (University of Georgia, Athens)
2:20	Plum Pox Virus: Vectors, Surveillance, and Threat to the Peach Industry. <i>Jaime Fuest</i> (University of Georgia, Athens)
2:30	Survey, Sampling and Taxonomic Identification of Thrips Species in Major Vegetable Growing Regions of India. <i>Anitha Chitturi</i> (University of Georgia, Athens)

PH.D. STUDENT PAPER COMPETITION (Continued)	
2:40	Nitrogen and Biological Control of the Beet Armyworm, <i>Spodoptera exigua</i> by Its Parasitoid, <i>Cotesia marginiventris</i>: Testing Slow-Growth-High-Mortality Hypothesis. <i>Yigen Chen</i> and John Ruberson (University of Georgia, Tifton)
2:50	Impact of the Red Imported Fire Ant (<i>Solenopsis invicta</i>) on Soil Arthropods of a Cotton Agroecosystem. <i>Kyle Wickings</i> (University of Georgia, Athens) and John Ruberson (University of Georgia, Tifton)
3:00 – 3:20 pm	Break
CONTRIBUTED PAPER SESSION Moderator: <i>David Buntin</i>	
3:20	Does Field Edge Structure Affect Penetration of Cotton Fields by Stink Bugs? <i>John R. Ruberson</i> (University of Georgia, Tifton)
3:30	Thrips Species Composition Shift in the Vidalia Onion Region - Potential Cause and Implications for Pest Management. <i>Alton N. Sparks, Jr.</i> (University of Georgia, Tifton)
3:40	Management of Azalea Lace Bug with Neonicotinoid Insecticides. <i>Jim Quick</i> and Kris Braman (University of Georgia, Griffin)
3:50	Crapemyrtle Cultivar Response to Japanese Beetle. <i>Kris Braman</i> (University of Georgia, Griffin)
6:30 – 7:30 pm	Reception & Student Award Recognitions Concourse Area Adjacent to Room Q Dinner on your own

Friday, May 18, 2007 GEORGIA CENTER, ROOM Q	
7:30 – 8:30 am	Registration, Conference Registration Desk
8:00 – Noon	Poster Displays, Concourse Area Adjacent to Room Q
8:00 – 8:30 am	Authors at Posters
CONTRIBUTED PAPER SESSION Moderator: <i>Robert McPherson</i>	
8:30	Insect Natural History in Costa Rica: International Service-Learning. <i>Marianne Robinette</i> (University of Georgia, Athens)
8:40	Taking Entomology on the Road (Part II). <i>Linda A. Smyth</i> (Clean Cities Coalition, Macon)
8:50	Toxicity of Fipronil and Its Enantiomers to Marine and Freshwater Non-targets. <i>J. Overmyer, W. A. Wilson, D. Rouse</i> (University of Georgia, Athens), <i>A. W. Garrison, J. Avants</i> (U.S. Environmental Protection Agency, Athens), <i>M. DeLorenzo, P. Key, K. Chung</i> (NOAA/National Ocean Service, Charleston, SC), and <i>M. Black</i> (University of Georgia, Athens)
9:00	Siesta® (Metaflumizone) A New Fire Ant Bait From BASF. <i>Larry Newsom, Dawn Calibeo-Hayes, and Thomas Holt</i> (BASF Corporation)
9:10	Comparison of Endosulfan (Avenger®) and Diazinon-Chlorpyrifos Combination (Warrior®) Cattle Ear Tags for Horn Fly Control. <i>Nancy C. Hinkle</i> (University of Georgia, Athens), <i>Timothy W. Wilson, and Philip C. Worley</i> (UGA Northwest Georgia Research and Education Center, Calhoun)
9:20	Coragen (E2Y45, Rynaxypyr): A New Insecticide Option for Vegetable IPM. <i>David G. Riley</i> (University of Georgia, Tifton)
9:30	Shifts in Pyrethroid Susceptibility of Corn Earworm. <i>Phillip Roberts, John Ruberson, and Russ Ottens</i> (University of Georgia, Tifton)
9:40 – 10:00 am	Break

CONTRIBUTED PAPER SESSION (Continued)	
10:00	Efficacy of Baits Containing Chitin Synthesis Inhibitors to Control Termites (Isoptera: Rhinotermitidae) Based on Bait Deliver, Transfer, and Mortality. <i>Jennifer L. Lewis and Brian T. Forschler</i> (University of Georgia, Athens)
10:10	Distribution and Genetic Variation of <i>Reticulitermes</i> (Isoptera: Rhinotermitidae) in Coastal Georgia. <i>David Sillam-Dussès</i> (University of Georgia, Athens), <i>Tracie M. Jenkins</i> (University of Georgia, Griffin), <i>Lisa J. Stabler, and Brian T. Forschler</i> (University of Georgia, Athens)
10:20	Seasonal Population Dynamics and Kernel Damage of the Brown Stink Bug (Heteroptera: Pentatomidae) in Corn. <i>Xinzhi Ni</i> (USDA-ARS, Tifton), <i>Kedong Da</i> (University of Georgia, Tifton), <i>David Buntin</i> (University of Georgia, Griffin), <i>Ted Cottrell</i> (USDA-ARS, Byron), <i>Gunawati Gunawan</i> (University of Georgia, Tifton), <i>Penny Tapp, Charles Mullis, Matthew Krakowsky, Robby Powell, Glynn Tillman, Dawn Olson</i> (USDA-ARS, Tifton), <i>Robert McPherson</i> (University of Georgia, Tifton), <i>Jeffrey Wilson</i> (USDA-ARS, Tifton), <i>Dewey Lee, and Anton Coy</i> (University of Georgia, Tifton)
10:30	Rapid Assessment of Insect Fragments in Flour, <i>Michael D. Toews</i> (University of Georgia, Tifton)
10:40	Managing and Monitoring Populations of Brown Stink Bugs in Southeastern Farmscapes. <i>Glynn Tillman</i> (USDA-ARS, Tifton)
10:50	Managing Thrips Vectors and Spotted Wilt Symptom Expression in Flue-Cured Tobacco. <i>Robert M. McPherson</i> (University of Georgia, Tifton)
11:00 – Noon	Business Meeting
Noon	Adjourn

POSTER DISPLAYS

THURSDAY, MAY 17 - FRIDAY, MAY 18, 2007
GEORGIA CENTER, CONCOURSE AREA ADJACENT TO ROOM Q

Posters will be on display continuously from 8:30 am to 5:00 pm on Thursday, May 17, and from 8:00 am to noon on Friday, May 18. Authors are asked to stand with posters from 8:00 – 8:30 am on Friday.

STUDENT POSTER COMPETITION

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| SP-1 | Service-Learning in Entomology: Bridging Theory & Practice. <i>Marianne Robinette</i> (University of Georgia, Athens) |
| SP-2 | Pine Tree Pollen Effects on Thrips Behavior. <i>Gina Angelella</i> (University of Georgia, Athens) |
| SP-3 | Vertical and Horizontal Distribution Patterns of Beetles in a Temperate Deciduous Forest. <i>Michael D. Ulyshen</i> (University of Georgia, Athens) and <i>James L. Hanula</i> (USDA Forest Service, Athens) |
| SP-4 | Effects of Chlorpyrifos, Spinosad and Halofenozide on Big-eyed Bugs (<i>Geocoris</i> spp.: <i>Geocoridae</i>). <i>S. V. Joseph</i> and <i>S. K. Braman</i> (University of Georgia, Griffin) |
| SP-5 | Phylogeny of the LBJ's: An Attempt to Identify Natural Lineages in the Cerylonid Series (Coleoptera: Cucujoidea). <i>James A. Robertson</i> , <i>Joseph V. McHugh</i> (University of Georgia, Athens), and <i>Michael F. Whiting</i> (Brigham Young University) |
| SP-6 | A Preliminary Morphological Study of <i>Deretaphrus piceus</i> Germar (Coleoptera: Bothriideridae). <i>N. P. Lord</i> and <i>J. V. McHugh</i> (University of Georgia, Athens) |
| SP-7 | Negative Effects of Host Seroconversion on Mosquito Fitness. <i>Ryan Brown</i> (University of Georgia, Athens) |
| SP-8 | A Proteomic Approach to the Identification of Cry4Ba Binding Proteins in Midgut Membranes from <i>Aedes aegypti</i>. <i>Krishna K. Bayyareddy</i> and <i>Michael J. Adang</i> (University of Georgia, Athens) |
| SP-9 | A 106-kDa Aminopeptidase is a Putative Receptor for <i>Bacillus thuringiensis</i> Cry11Ba Toxin in the Mosquito <i>Anopheles gambiae</i>. <i>Rui Zhang</i> , <i>Gang Hua</i> , and <i>Michael J. Adang</i> (University of Georgia, Athens) |

REGULAR POSTER DISPLAYS

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| DP-1 | Peptide Fragments of Cadherin, called BtBooster, Synergize <i>Bacillus thuringiensis</i> Cry1A Toxicity to Insects. <i>Gang Hua</i> (University of Georgia, Athens), <i>Mohd Amir Abdullah</i> (InsectGen, Inc.), <i>Jiang Chen*</i> , and <i>Michael J. Adang</i> (University of Georgia, Athens) |
| DP-2 | Influence of Cover Crop and Herbicide Burndown Timing in Conservation Tillage on Thrips Infestations in Cotton. <i>John All</i> , <i>William Vencill</i> (University of Georgia, Athens), and <i>Kimberly Lohmeyer</i> (USDA-ARS, Kerrville TX) |
| DP-3 | Alverde® (Metaflumizone) A Novel BASF Insecticide for Control of Key Insect Pests in Vegetables. <i>Larry Newsom</i> , <i>Venkat Pedibhotla</i> , <i>Dawn Calibeo-Hayes</i> , <i>Joseph Mitchell</i> , and <i>Thomas Holt</i> (BASF Corporation) |
| DP-4 | Neonicotinoids for the Control of Citrus and Madeira Mealybug. <i>Monica Townsend</i> and <i>Ronald Oetting</i> (University of Georgia, Griffin) |
| DP-5 | Ticks of the Florida Black Bear (<i>Ursus americanus floridanus</i>) in Florida and Georgia. <i>Todd N. Nims</i> (Georgia Department of Natural Resources, Social Circle) and <i>Lance A. Durden</i> (Georgia Southern University, Statesboro) |
| DP-6 | Parasitoids of the Cabbage Seedpod Weevil, a Pest of Canola in Georgia, U.S.A. <i>G. David Buntin</i> (University of Georgia, Griffin), <i>Gary A. P. Gibson</i> (Agriculture and Agri-Food Canada, Ottawa), and <i>Michael W. Gates</i> (USDA-ARS, Smithsonian Institution, Washington, DC) |
| DP-7 | New Chemical Control Methods for Pecan Nut Casebearer and Hickory Shuckworm in Pecan Orchards. <i>James D. Dutcher</i> (University of Georgia, Tifton) |

**OFFICERS AND COMMITTEE ASSIGNMENTS OF THE
GEORGIA ENTOMOLOGICAL SOCIETY**

OFFICERS AND EXECUTIVE BOARD 2006-2007

President	<i>John All</i>
President-Elect	<i>Kris Braman</i>
Past President	<i>Robert McPherson</i>
Secretary-Treasurer	<i>Paul Guillebeau</i>
Historian	<i>Nancy Hinkle</i>

JOURNAL OF ENTOMOLOGICAL SCIENCE

Editor	<i>Wayne Gardner</i>
Associate Editor	<i>G. David Buntin</i>
Business Manager	<i>Susan Thornhill</i>

2007 LOCAL ARRANGEMENTS COMMITTEE

<i>Dan Horton</i> , Chair	Scott Horn
Jim Hanula	

PROGRAM COMMITTEE

<i>Kris Braman</i> , Chair	Danny Fendley
John All	Terry All
Paul Guillebeau	

INSECT SURVEY

<i>Phillip Roberts</i> , Co-Chair	<i>Paul Guillebeau</i> , Co-Chair
<i>Nancy Hinkle</i> , Co-Chair	

AWARDS AND RECOGNITION

<i>John All</i> , Chair	Robert McPherson
Dan Horton	Wayne Gardner
Kris Braman	

STUDENT AFFAIRS

<i>John Ruberson</i> , Chair	William Irby
Dan Hagan	Dan Horton
Jaime Fuest	Sarah Mock

NOMINATIONS

<i>Robert McPherson</i> , Chair	Jim Dutcher
Wayne Gardner	

AUDIT

<i>John Ruberson</i> , Chair	Stormy Sparks
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SITE SELECTION – 2008

<i>Phillip Roberts</i> , Chair	Darold Batzer
William Irby	Dan Suiter

GES SCHOLARSHIP

<i>Robert McPherson</i> , Chair	Jim Dutcher
Wayne Gardner	

O. I. SNAPP AWARD (NON-STUDENT PAPER)

<i>Jim Hanula</i> , Chair	Jim Dutcher
Scott Horn	

T. L. BISSELL AWARD (M.S./B.S. STUDENT PAPER)

<i>Phillip Roberts</i> , Chair	Michael Toews
Gretchen Pettis	

C. M. BECKHAM AWARD (PH.D. STUDENT PAPER)

<i>Nancy Hinkle</i> , Chair	John Ruberson
Dan Horton	

U. E. BRADY AWARD (STUDENT POSTER)

<i>Tracie Jenkins</i> , Chair	Robert McPherson
Keith Douce	

PHOTO SALON

<i>Alton N. Sparks, Jr.</i> , Chair	Will Hudson
John Ruberson	Jim Dutcher

RESOLUTIONS

<i>G. David Buntin</i> , Chair	Xinzhi Ni
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INDUSTRY PANEL

<i>Bo Braxton</i> (Dow), Chair	Tony Weiss (Dow)
Henry McLean (Syngenta)	John All

MEMBERSHIP AND COMPUTER RESOURCES COMMITTEE

<i>John All</i> , Chair	Jim Dutcher
Glynn Tillman	Todd Nims
Keith Griffith	

OPERATING GUIDELINES COMMITTEE

<i>Robert McPherson</i> , Chair	John All
Lance Peterson	Jim Hanula

SPORTING EVENTS (GOLF AND RUN/WALK)

<i>Stormy Sparks</i> , Golf	<i>John All</i> , Run/Walk
Phillip Roberts	

**PRESIDENTS OF THE
GEORGIA ENTOMOLOGICAL SOCIETY**

1937	C. H. Alden	1974	Rudolph T. Franklin
1938	C. H. Alden	1975	Horace O. Yates, III
1939	Theodore L. Bissell	1976	Jerry E. Payne, Sr.
1940	P. M. Gilmer	1977	V. Rodney Coleman
1941	C. H. Alden	1978	R. H. Prestage
1942	M. M. Murphey, Jr.	1979	R. B. Henderson
1944	P. W. Fattig	1980	James O. Howell
1946	Oliver I. Snapp	1981	Alton N. Sparks
1948	W. H. Clarke	1982	U. Eugene Brady, Jr.
1949	Horace O. Lund	1983	Richard F. Nash
1950	J. C. Alden	1984	W. Louis Tedders, Jr.
1951	G. G. Rohwer	1985	Herbert Womack
1952	W. G. Bruce	1986	John B. O'Neil
1953	William F. Turner	1987	J. Larry Zettler
1954	W. E. Blassingame	1988	James H. Oliver, Jr.
1955	F. E. Allison	1989	Louise G. Henry
1956	Cedric R. Jordan	1990	William L. Tietjen
1957	H. E. Johnson	1991	Jerry A. Payne
1958	Clifford M. Beckham	1992	James R. Collins
1959	H. Laudani	1993	T. Don Canerday
1960	J. W. Maxwell	1994	Michael A. Mullen
1961	O. K. Fletcher, Jr.	1995	Keith H. Griffith
1962	W. W. Wells	1996	Frank E. French
1963	E. W. Beck	1997	Robert E. Lynch
1964	Loy W. Morgan	1998	Sandy Newell
1965	Hamlin H. Tippins	1999	James D. Dutcher
1966	H. L. Pollard	2000	James E. Carpenter
1967	H. D. Purswell	2001	Lance G. Peterson
1968	J. W. Kilpatrick	2002	Daniel V. Hagan
1969	Preston E. Hunter	2003	James L. Hanula
1970	R. B. Comoly	2004	G. David Buntin
1971	R. Davis	2005	Wayne A. Gardner
1972	L. M. Redlinger	2006	Robert McPherson
1973	John B. O'Neil	2007	John All

**MEETINGS OF THE
GEORGIA ENTOMOLOGICAL SOCIETY**

Meeting Dates	Location
2 April 1937	Agricultural Experiment Station, Experiment
1 April 1938	Georgia Institute of Technology, Atlanta
28-30 Oct. 1938	Okefenokee Swamp, Fargo
6 May 1939	Georgia State College for Women, Milledgeville
14 October 1939	Agricultural Experiment Station, Experiment
6 April 1940	Emory University, Atlanta
7 November 1940	Agricultural Experiment Station, Experiment
5 April 1941	Wesleyan College, Macon
4 April 1942	Emory University, Atlanta
21 March 1944	Piedmont Hotel, Atlanta
29 March 1946	Agricultural Experiment Station, Experiment
10 April 1948	Baldwin Hall-UGA, Athens
30 April 1949	Jekyll Island Hotel, Jekyll Island
3-4 March 1950	American Legion, Fort Valley
9-10 March 1951	Abraham Baldwin Agricultural College, Tifton
7-8 March 1952	Savannah Hotel, Savannah
6-7 March 1953	Hotel Dempsey, Macon

Meeting Dates
12-13 March 1954
4-5 March 1955
8-9 March 1956
19-20 March 1957
5-7 March 1958
4-5 March 1959
30-31 March 1960
8-9 March 1961
20-22 March 1962
20-22 March 1963
26-27 March 1964
9-11 March 1965
23-25 March 1966
21-23 March 1967
19-21 March 1968
18-20 March 1969
17-19 March 1970
16-18 March 1971
15-17 March 1972
28-30 March 1973
13-15 March 1974
19-21 March 1975
17-19 March 1976*
16-18 March 1977
15-17 March 1978
21-23 March 1979*
19-21 March 1980
18-19 March 1981
24-26 March 1982
23-25 March 1983
21-23 March 1984
20-22 March 1985
24-26 March 1986*
18-20 March 1987
23-25 March 1988
22-24 March 1989
28-30 March 1990
27-29 March 1991
25-27 March 1992
24-26 March 1993
23-25 March 1994*
29-31 March 1995
27-29 March 1996
16-17 April 1997
16-17 April 1998
14-16 April 1999
6-7 April 2000
4-6 April 2001*
3-5 April 2002
2-4 April 2003
31 March - 2 April 2004
30 March - 1 April 2005
29-31 March 2006
16-18 March 2007

Location
Ida Dunlap Little Library -UGA, Athens
Radium Springs Hotel, Albany
Manger Hotel, Savannah
Rock Eagle 4-H Club Center, Eatonton
King and Prince Hotel, St. Simons Island
Radium Springs Hotel, Albany
New Chemistry Building-UGA, Athens
Wanderer Motel, Jekyll Island
Radium Springs Hotel, Albany
Holiday Inn, Pine Mountain
Corsair Motel, Jekyll Island
Downtown Holiday Inn, Atlanta
Stuckey's Carriage Inn, Jekyll Island
Manger Hotel, Savannah
Elks Club, Albany
Stuckey's Carriage Inn, Jekyll
Downtowner Motor Inn, Albany
DeSoto Hilton, Savannah
King and Prince Hotel, St. Simons Island
Macon Hilton Hotel, Macon
Holiday Inn, Athens
King and Prince Hotel, St. Simons Island
DeSoto Hilton, Savannah
Downtowner Motor Inn, Albany
King and Prince Hotel, St. Simons Island
Quality Inn, Hilton Head Island, SC
Ramada Inn West, Macon
Rural Development Center, Tifton
History Village Inn & Conference Center, Athens
Downtowner Motor Inn, Albany
Buccaneer Motor Lodge, Jekyll Island
Rural Development Center, Tifton
Sheraton Resort & Country Club, Savannah
Quality Inn- Buccaneer, Jekyll Island
Georgia Southern Col., Statesboro
Univ. of Georgia, Athens
Unicoi Lodge & Conference Center, Helen
Callaway Gardens, Pine Mountain
Clarion Resort Buccaneer, Jekyll Island
Georgia Center for Continuing Ed., Athens
Sheraton Charleston Hotel, Charleston, SC
Merry Acres Motel, Albany
Holiday Inn-Midtown, Savannah
Unicoi State Park, Helen
Buccaneer Motor Lodge, Jekyll Island
Rural Development Center, Tifton
Georgia Center for Continuing Education, Athens
Georgia Mountain Center, Gainesville
Georgia Southern University, Statesboro
Holiday Inn, Jekyll Island
Callaway Gardens, Pine Mountain
Georgia Center for Continuing Education, Athens
Holiday Inn, Jekyll Island
Georgia Center for Continuing Education, Athens

*Joint meeting of the Georgia Entomological Society and the South Carolina Entomological Society

SPEAKER SCHEDULE**NOTES**

Braman, Kris	Thursday 5/17	3:50 pm
Chen, Yigen	Thursday 5/17	2:40 pm
Chitturi, Anitha	Thursday 5/17	2:30 pm
Coleman, Tom	Thursday 5/17	11:05 am
Cottrell, Ted	Thursday 5/17	8:30 am
Douce, Keith	Thursday 5/17	9:50 am
Evans, Mike	Thursday 5/17	10:15 am
Forrester, Juanita	Thursday 5/17	2:00 pm
Fuest, Jaime	Thursday 5/17	2:20 pm
Gardner, Wayne	Thursday 5/17	11:30 am
Giorgi, Adriano	Thursday 5/17	1:50 pm
Hanula, Jim	Thursday 5/17	10:40 am
Hinkle, Nancy	Friday 5/18	9:10 am
Lewis, Jennifer	Friday 5/18	10:00 am
McPherson, Robert	Friday 5/18	10:50 am
Newsom, Larry	Friday 5/18	9:00 am
Ni, Xinzhi	Friday 5/18	10:20 am
Nuss, Andrew	Thursday 5/17	2:10 pm
Overmyer, Jay	Friday 5/18	8:50 am
Quick, Jim	Thursday 5/17	3:40 pm
Riley, David	Friday 5/18	9:20 am
Roberts, Phillip	Friday 5/18	9:30 am
Robinette, Marianne	Friday 5/18	8:30 am
Roche, Aubree	Thursday 5/17	1:40 pm
Ruberson, John	Thursday 5/17	3:20 pm
Scocco, Erika	Thursday 5/17	1:30 pm
Sillam-Dussès, David	Friday 5/18	10:10 am
Smyth, Linda	Friday 5/18	8:40 am
Sparks, Alton	Thursday 5/17	3:30 pm
Tillman, Glynn	Friday 5/18	10:40 am
Toews, Michael	Friday 5/18	10:30 am
Wickings, Kyle	Thursday 5/17	2:50 pm

Angelella, Gina	Student poster
Bayyareddy, Krishna	Student poster
Brown, Ryan	Student poster
Joseph, S. V.	Student poster
Lord, N. P.	Student poster
Robertson, James	Student poster
Robinette, Marianne	Student poster
Ulyshen, Michael	Student poster
Zhang, Rui	Student poster

All, John	Poster
Buntin, G. David	Poster
Dutcher, James	Poster
Hua, Gang	Poster
Newsom, Larry	Poster
Nims, Todd	Poster
Townsend, Monica	Poster

Please be considerate of speakers and meeting participants; turn off the ringer on cell phones and pagers before entering the meeting rooms.

