

73rd Annual Meeting

**Georgia Entomological Society**



**1-3 April 2009**

***The Ridges Resort and Club  
Hiawassee, Georgia***

**GEORGIA ENTOMOLOGICAL SOCIETY  
PRESIDENT  
2008-2009**



**John R. Ruberson**

Welcome to the Ridges Resort Club in lovely Hiawassee for our 73<sup>rd</sup> meeting of the Georgia Entomological Society. Kudos to the Local Arrangements Committee for setting up a beautiful location. We have a diverse program of relevant topics in entomology for the many professional entomologists, students, and others interested in insects in Georgia and beyond. On Wednesday afternoon we will have our traditional Bug Run and Golf Tournament. The main meeting Thursday will begin with the Founder's Lecture honoring Ron Oetting, and presented by Wayne Gardner of the University of Georgia. Ron has made numerous significant contributions to Entomology and the Georgia Entomological Society and is highly deserving of the recognition. He has also been a superlative colleague. We will also honor William "Hap" Tietjen as a GES Fellow. Bill has been a stalwart of the GES and a superb mentor and advocate of students for many years, shaping many lives. The GES opening symposium focuses on insects as a part of our most intimate landscapes – our living spaces. Our industry panel will update us on exciting new developments, and we will hear about the state of the science and a wide variety of entomological topics in the oral papers and posters to follow, including the student competition, which highlights the talents of the next generation. The luncheon will include the always enjoyable slideshow with the photo contest submissions for this year, and the student awards for 2009 will be presented at the evening reception. Thanks to all presenters and volunteers for making this all possible!

John Ruberson is a Professor with the Department of Entomology at the University of Georgia. His undergraduate degree in Biology Teaching and MS degree in Zoology are from Brigham Young University. His PhD in Entomology is from Cornell University. His research and teaching emphases are on the biological control of arthropod pests of row crop and vegetable systems, and the ecology of predators and parasitoids. He has been active in the Georgia Entomological Society, International Organization for Biological Control, and the Entomological Society of America and he has served in various capacities in all of these organizations.

**SCHEDULE OF EVENTS**

**Wednesday, 1 April 2009**

|                     |   |
|---------------------|---|
| GES Golf Tournament | 12:00 pm, Meet in Resort Lobby, Stormy Sparks |
| Entomology Run/Walk | 4:00 pm, Meet in Resort Lobby, John All       |
| Executive Committee | Resort Lobby 7:30 – 8:30 pm                   |

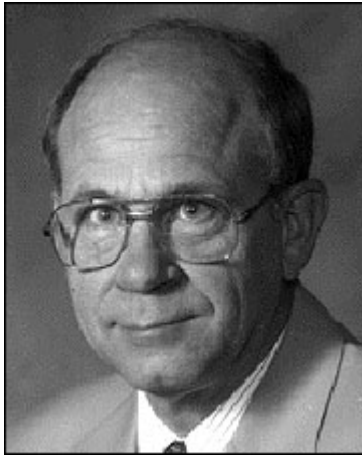
**Thursday, 2 April 2009**

|                  |   |
|------------------|---|
| 7:00 – 8:00 am   | Continental Breakfast, Resort Main Building Lobby                         |
| 7:30 – 8:30 am   | Registration, Resort Main Building Lobby                                  |
| 7:30 – 8:30 am   | Poster Set Up, Resort Main Building Lobby                                 |
| 8:30 – 5:00 pm   | Poster Displays, Resort Main Building Lobby                               |
| 8:00 – 8:30 am   | Welcome and Announcements, High Cove Room                                 |
| 8:30 – 9:00 am   | 2008 Founders Lecture, High Cove Room                                     |
| 9:00 – 10:20 am  | Industry Panel, High Cove Room  |
| 10:20 – 10:35 am | Break   |
| 10:35 – Noon     | Symposium – "At Home With Bugs"   |
| Noon – 1:30 pm   | Luncheon & Photo Salon (recognition of 2009 Fellow), Red Banks Ridge Room |
| 1:30 – 2:18 pm   | M.S. Student Paper Competition, High Cove Room                            |
| 2:18 – 2:42 pm   | Ph.D. Student Paper Competition, High Cove Room                           |
| 2:42 – 3:00 pm   | Break   |
| 3:00 – 4:36 pm   | Contributed Papers, High Cove Room  |
| 6:00 – 7:00 pm   | Light Mixer and Awards Reception: Pavillion                               |

**Friday, 3 April 2009**

|                  |   |
|------------------|---|
| 7:30 – 8:30 am   | Continental Breakfast, Resort Main Building Lobby |
| 7:30 – 8:30 am   | Registration, Resort Main Building Lobby          |
| 8:00 – 11:30 am  | Poster Displays, Resort Main Building Lobby       |
| 8:00 – 8:30 am   | Authors at Posters                                |
| 8:30 – 9:42 am   | Contributed Papers, High Cove Room                |
| 9:42 – 10:00 am  | Break   |
| 10:00 – 10:48 am | Contributed Papers, High Cove Room                |
| 11:00 – 12:00 pm | Business Meeting, High Cove Room                  |
| 12:00 pm         | Adjourn   |

**GEORGIA ENTOMOLOGICAL SOCIETY  
2009 FOUNDER HONOREE**



**Ronald D. Oetting**

Ronald D. Oetting is currently professor emeritus with the Department of Entomology at the University of Georgia and is based on the UGA Griffin Campus. Ron retired from UGA in 2003, but returned to a one-third time appointment and continues to serve clientele within Georgia, the Southeast, the U.S. as well as internationally in this role.

Ron received his B.S. from the University of Missouri in Wildlife Conservation and, after 2 years of service in the U.S. Army, returned to Missouri to obtain his M.S. and Ph.D. in Entomology. He joined the Entomology faculty at UGA in 1978 after working at Washington State University (1974-1976) and at the University of California-Riverside (1976-1978). He worked with a team of scientists at Washington State University who were exploring alternatives to burning for bluegrass seed production. His role was to define impacts of burning on mite and insect occurrence in the grass crops. At Riverside, Ron had assigned responsibilities for ornamentals, turfgrasses and floricultural crops.

For the majority of his career at UGA, Ron enjoyed a split appointment in research and extension in developing and implementing pest management programs for pests of floricultural crops. He has worked with all the major floricultural pests, including studies on their developmental biology and behavior, research on application technology, and management with traditional insecticides, natural products and biological agents. Ron is internationally recognized and acclaimed as a leader in pest management for greenhouse-grown floricultural crops. He served as advisor for an

AID/MERC project on greenhouse pest management in the Middle East working across geographic and political boundaries to establish cooperation in developing and implementing effective pest management programs in that region. He is an invited speaker for floricultural industry conferences and scientific gatherings both nationally and internationally. And, he has published over 100 refereed journal papers and numerous proceeding papers, book chapters, trade journal articles, and other popular articles. Ron has said that the most rewarding aspect of his career in Entomology has been solving grower problems with major mite and insect pests.

Ron and his wife Joyce have been married almost 42 years. They have 2 sons – Robert and Clark – and 3 grandchildren – Isabella and Angelina (Robert and Kim) and Ried (Clark and Holly). Ron and Joyce have homes in Griffin, Savannah and Epworth (the one he enjoys the most), and they still maintain partial ownership of the family farm in MacComb, Missouri.

**GEORGIA ENTOMOLOGICAL SOCIETY  
2009 FOUNDERS' LECTURER**



**Wayne A. Gardner**

Wayne A. Gardner is a 34-year member of the Georgia Entomological Society and has served the Society in various committee assignments, as Business Manager (1988-1993) and Editor (1993 to present) of the *Journal of Entomological Science*, and as Society President (2004-2005). He was elected a Fellow of the Society in 2007. He also presented the 1992 Founder Lecture honoring Hamlin H. Tippins.

Wayne joined the faculty of the University of Georgia in 1979 and has been assigned to the Entomology Unit at Griffin for those 30+ years. During that time, he has been budgeted primarily in research (Georgia Agricultural Experiment Stations) focusing on microbial control of various insect pests including the pecan weevil, the fall armyworm and other lepidopteran species, and aphid pests. More recently, his

research has included the imported fire ant and its hybridized form. In addition to these duties, Wayne serves as administrative coordinator for the Griffin entomology unit, oversees programming and activities at the UGA Research and Education Garden, and teaches Insect Pest Management and Agricultural Ethics in the newly-created undergraduate academic program on the Griffin Campus.

Wayne has enjoyed a long association with his friend and colleague, Dr. Ronald D. Oetting, the honoree of this year's Founders Lecture. Both arrived in Griffin within the same year. They and their families have together celebrated many accomplishments and milestones during their time in Entomology and the Griffin community.

## **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  
2008 Founder and Lecturer  
Louis Tedders, presented by Russ Mizell  
2009 Founder and Lecturer  
Ronald D. Oetting, presented by Wayne A. Gardner

## 2009 FELLOW OF THE GEORGIA ENTOMOLOGICAL SOCIETY

Dr. William Tietjen is being recognized as a Fellow of the Georgia Entomological Society at this meeting. Such recognition is reserved for individuals who have made significant contributions in entomological teaching, research, extension, or administration.



### WILLIAM “HAP” TIETJEN

Entomological experience began with 4-H entomology project (Georgia State winner, 1953). Continued with opportunity to work as undergraduate research assistant to H. O. Lund, primarily raising *Culex* mosquitoes. Additional entomological training came under Don Scott investigating macroinvertebrates in the Etowah River at the Lockheed Nuclear Site. While working on the Ph. D. in insect physiology (isoleucine metabolism in *Aedes aegypti*) at the University of Tennessee was able to work with D. A. Crossley at Oak Ridge National Laboratory on several insect ecology projects.

Came to Georgia Southwestern College as Assistant Professor of Biology where in 1956 had received AS degree. Later advanced through Associate to Professor at Ga. Southwestern, now named Georgia Southwestern State University. Biology Department Chair from 1987 to 1997. Acting Dean of School of Arts and Sciences, 1996 – 1997. Interim Vice President for Academic Affairs 1997 – 1998. Retired 1998 but returned as Interim Vice President for Academic Affairs in 2007 – 8. Since GSW is primarily a teaching school, taught a variety of courses with most in physiology and ecology, especially enjoying general entomology and aquatic biology (taught with much emphasis on the insects). Most majors went into medicine and other health fields or into teaching (there is a pleasure in teachers who have developed special insect interest in their classrooms), however special pride is taken in several who have gone on to complete Ph.D.s in entomological areas and to teach in university settings.

Was able to conduct a small amount of research, which involved students, in spider ecology and Zoraptera (including an early report for Georgia). Because of special needs in geographical area several research studies

addressed water quality concerns in local streams and in Lake Blackshear. These funded studies also included students. Students were able to make presentations at state or regional conferences.

Since retiring have continued water quality studies on Lake Blackshear, but have also been able to return to spider ecology and to work with macroinvertebrates in streams. Also have become involved with the Georgia EPD's Adopt-A-Stream program serving on the advisory board and as a certified trainer. Additionally have been active in short courses in ecology and water quality for science teachers.

In 1990 was given the Award for Teaching and Excellence by the GSW Alumni Association and in given the Leewynn J. Finklea Outstanding Alumni Award in 1998. Upon retirement, was given the President's Medal for Outstanding University Service and appointed Emeritus Professor of Biology.

## FELLOWS OF THE GEORGIA ENTOMOLOGICAL SOCIETY

|      |                     |      |                    |
|------|---------------------|------|--------------------|
| 1991 | James H. Oliver, Jr | 2004 | Frank E. French    |
| 1992 | Preston E. Hunter   | 2005 | C. Wayne Berisford |
| 1993 | Alton N. Sparks     | 2005 | Daniel V. Hagan    |
| 1994 | J. Bruce Wallace    | 2006 | Wayne Gardner      |
| 1995 | Harry O. Yates, III | 2006 | Lance Peterson     |
| 1998 | Sturgis McKeever    | 2007 | James Dutcher      |
| 2000 | Rudolph T. Franklin | 2007 | Keith Griffith     |
| 2001 | W. Joe Lewis        | 2008 | John All           |
| 2002 | Richard B. Chalfant | 2008 | T. Don Canerday    |
| 2003 | Ronald D. Oetting   | 2009 | William Tietjen    |

| <b>Thursday, 2 April, 2009</b>     |  |
|------------------------------------|--|
| <b>OPENING SESSION</b>             |  |
| <b>High Cove Room</b>              |  |
| President John Ruberson, presiding |  |
| 7:30 – 8:30 am                     | Registration, Resort Main Building Lobby Desk  |
| 7:30 – 5:00 pm                     | Presentation previews – – By arrangement w/Danny Fendley   |
| 8:30 – 5:00 pm                     | Poster Displays, Resort Main Building Lobby Area (adjacent to meeting rooms)   |
| 8:00 – 8:30 am                     | Welcome and Announcements, High Cove Room  |
| 8:30 – 9:00 am                     | GES 2008 Founders Lecture<br>Honoring Ronald D. Oetting<br>Presented by Wayne Gardner  |
| 9:00 – 10:20 am                    | <b>Industry Panel</b><br>Moderator: <i>Keith Rucker</i> (Bayer Cropscience)<br>Jeff Smith – Valent<br>Gerald Harrison – Amvac<br>James Hadden – Syngenta<br>Keith Griffith – Chemtura<br>Keith Rucker – Bayer Cropscience                      |
| 10:20 – 10:35 am                   | <b>Break</b>   |
| 10:35 – Noon                       | <b>Symposium – “At Home With Bugs”</b><br>Moderator: <i>James Hadden</i>   |
| 10:40                              | <b>The Importance of Insect Behavioral Analysis: Video Recording and Analysis of Focal Animal Experiment Explains Conundrums in the Scientific Literature on Subterranean Termites.</b> <i>Brian Forschler</i> (University of Georgia, Athens) |
| 11:00                              | <b>Diagnostics for the Homeowner.</b> <i>Lisa Ames</i> (University of Georgia, Griffin)  |
| 11:20                              | <b>Bugs On My Shrubs.</b> <i>Kris Braman</i> (University of Georgia, Griffin)  |
| 11:40                              | <b>Scientific Perspectives on Identification, Distribution, Evaluation and Range of Spiders in Georgia.</b> <i>Nancy Hinkle</i> (University of Georgia, Athens)  |
| 12:00                              | <b>Adjourn</b>   |

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|----------------|--|
| Noon – 1:30 pm | <b>Luncheon and Photo Salon</b> , Red Banks Ridge Room (recognition of 2009 GES Fellow)<br>Moderator: <i>Stormy Sparks</i> |
|----------------|--|

| <b>Thursday, 2 April 2009</b>                       |   |
|---|---|
| <b>The Ridges Resort &amp; Club, High Cove Room</b> |   |
| <b>M.S. STUDENT PAPER COMPETITION</b>               |   |
| Moderator: S. Kristine Braman                       |   |
| 1:30  | <b>ITS2 Genetic Structure Confirms Concordant Gene Trees for Flea Beetles in the Genus <i>Altica</i> (Coleoptera: Chrysomelidae).</b> <i>Michael W. Ruhl</i> (University of Georgia, Griffin)                                   |
| 1:42  | <b>Evaluation of Diatomaceous Earth Against Darkling Beetles (<i>Alphitobius diaperinus</i>).</b> <i>Whitney Boozer</i> (University of Georgia, Athens)   |
| 1:54  | <b>Phylogeographic study of a New World tick species <i>Amblyomma cajennense</i> (Acari: Ixodidae), based on mitochondrial gene sequences.</b> <i>Erica Burkman</i> and Lorenza Beati (Georgia Southern University, Statesboro) |
| 2:06  | <b>The Repellency of Five Essential Oils Against the Argentine Ant, <i>Linepithema humile</i> (Mayr).</b> <i>C. M. Scocco</i> and D. R. Suiter (University of Georgia, Griffin)   |

| <b>PH.D. STUDENT PAPER COMPETITION</b> |   |
|--|---|
| Moderator: Joe Eger                    |   |
| 2:18                                   | <b>Vertical Flight of Male <i>Synanthedon pictipes</i> and <i>S. exitiosa</i> (Lepidoptera: Sesiidae) Changes With Tree Height in Orchards and Woodlots.</b> <i>J. Fuest</i> , (University of Georgia, Athens), T. E. Cottrell, (USDA-ARS, Byron), and D. L. Horton (University of Georgia, Athens) |
| 2:30                                   | <b><i>Pentastemon lanceolatus</i> as a Nectar Source for <i>Larra bicolor</i> a Parasitoid on <i>Scapteriscus Mole Crickets</i>.</b> <i>Cheri M. Abraham</i> and David Held (University of Georgia, Athens)   |
| 2:42 – 3:00                            | <b>BREAK</b>  |
| 3:00                                   | <b>Susceptibility of <i>Pieris</i> Varieties to Lace Bugs (<i>Stephanitis</i> spp.) (Tingidae: Hemiptera)</b> <i>Shakunthala Nair</i> , S. Kristine Braman and David Knauft (University of Georgia, Athens)   |
| 3:12                                   | <b>Olfactory Response of Predators to Hemlock Species (<i>Tsuga</i> spp.).</b> <i>Shimat V. Joseph</i> , S. Kristine Braman (University of Georgia, Griffin) and Jim Hanula (USDA Forest Service, Athens)   |



|      |  |
|------|--|
| 3:24 | <b>Developing an IPM Plan for the Chattahoochee River National Recreation Area.</b> <i>Sonja Brannon</i> (University of Georgia, Athens)   |
| 3:36 | <b>Evolution of Food Preferences in Coccinellidae: Insights Based on a Molecular Study.</b> <i>José Adriano Giorgi</i> (University of Georgia, Athens), Natalia J. Vandenberg (SEL, USDA, Washington, DC), Joseph V. McHugh, Juanita A. Forrester (University of Georgia, Athens), S. Adam Ślipiński (CSIRO, Canberra), Kelly B. Miller (University of New Mexico, Albuquerque), Lori R. Shapiro (The Pennsylvania State Univ., Univ. Park), and Michael F. Whiting (BYU, Provo) |
| 3:48 | <b>Structure and Function of the N-Glycosylation of a <i>Microplitis demolitor</i> Bracovirus Protein Glc1.8.</b> <i>Shu Zhang</i> , Markus Beck and Michael Strand (University of Georgia, Athens)  |
| 4:00 | <b>Unraveling the Ambiguous Taxonomy of Subterranean Termites: A Case Study Using the Genus <i>Reticulitermes</i> (Rhinotermitidae) Found in Georgia.</b> <i>Su Yee Lim</i> , Joseph V. McHugh, Brian T. Forschler (University of Georgia, Athens)   |

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| <b>Thursday, 2 April 2009</b><br><b>The Ridges Resort &amp; Club, High Cove Room</b> |   |
| <b>CONTRIBUTED PAPER SESSION</b><br>Moderator: Robert McPherson                      |   |
| 4:12   | <b>Tobacco Splitworm Monitoring and Management in Georgia Flue-Cured Tobacco.</b> <i>C. Wesley Stephens</i> and Robert M. McPherson (University of Georgia, Tifton)   |
| 4:24   | <b>Conservation of Pecan Foliage by Controlling Aphids and Mites.</b> <i>James D. Dutcher</i> and W. G. Hudson (University of Georgia, Tifton)  |
| 4:36   | <b>Regional Dynamics of Thrips Relative to Pine Pollen Dehiscence in Georgia.</b> <i>David Riley</i> (University of Georgia, Tifton)  |
| 4:48   | <b><i>Aridelus rufotestaceus</i>: A New Stink Bug Enemy in Georgia.</b> <i>John R. Ruberson</i> , Michael D. Toews, Phillip M. Roberts, Melissa D. Thompson (University of Georgia, Tifton), Scott R. Shaw (Univ. of Wyoming) |
| 5:00   | <b>Neotenic, Soldiers, and Sex Ratios Provide Hints to a Developmental Pathway in Subterranean Termites.</b> <i>Jian Hu</i> and Brian T. Forschler (University of Georgia, Athens)  |

|                |  |
|----------------|--|
| 5:12           | <b>ADJOURN</b>   |
| 6:00 – 7:00 pm | <b>Light Mixer &amp; Student Awards Recognition</b><br>Pavillion |

|  |   |
|--|---|
| <b>Friday, 3 April 2009</b><br><b>The Ridges Resort &amp; Club, High Cove Room</b> |   |
| 7:30 – 8:30 am   | <b>Registration, Resort Main Building Lobby Desk</b>  |
| 7:30 – 11:00 am  | <b>Presentation previews –By arrangement w/Danny Fendley</b>  |
| 8:00 – Noon  | <b>Poster Displays, Resort Main Building Lobby Area (adjacent to meeting room)</b>  |
| 8:00 – 8:30 am   | <b>Authors at Posters</b>   |
| <b>CONTRIBUTED PAPER SESSION</b><br>Moderator: David Riley                         |   |
| 8:30   | <b>Targeted Insecticide Application Strategies as a Method of Managing Subterranean Termites.</b> <i>Glen C. Ramsey</i> , Dexter L. Fisher, P. Dexter Adams, Brian T. Forschler (University of Georgia, Athens)   |
| 8:42   | <b>Use of Concrete as an Alternative Building Material for Beehives.</b> <i>Mark Headings</i> (The Ohio State University, Wooster)  |
| 8:54   | <b>Recruit™ HD - A Paradigm Shift in the Evolution of Termite Bait Technology.</b> <i>J. E. Eger</i> , J. DeMark, M. Tolley, M. Lees, M. Messenger, E. Thoms, M. Fisher, M. Melichar, R. Hamm, J. McKern (Dow AgroSciences, Tampa)  |
| 9:06   | <b>Evaluation of Elite GEM Inbred Lines for Resistance to Multiple Ear and Kernel Pests.</b> <i>Xinzh Ni</i> (USDA-ARS, Tifton), Wenwei Xu (Texas A&M University, Lubbock), Michael H. Blanco (USDA-ARS, Ames), Jeffrey P. Wilson, Brian T. Scully (USDA-ARS, Tifton), and G. David Buntin (University of Georgia, Griffin)   |
| 9:18   | <b>Virulence of Hessian fly to New Resistance Genes in the Southeast.</b> <i>G. David Buntin</i> , Jerry Johnson (University of Georgia, Griffin), Sue Cambron (USDA-ARS, Purdue University, West Lafayette, IN), Kathy Flanders (Auburn University, Auburn), Steve Harrison (Louisiana State University, Baton Rouge), Paul Murphy (North Carolina State University, Raleigh), and Jay Chapin (Clemson University, Blackville, SC) |

|                 |   |
|-----------------|---|
| 9:30            | <b>Do Aphids Impact Georgia Cotton Yields?</b> <i>Phillip Roberts</i> (University of Georgia, Tifton) |
| 9:42 – 10:00 am | <b>BREAK</b>  |

| <b>CONTRIBUTED PAPER SESSION (Continued)</b> |  |
|--|--|
| Moderator: Phillip Roberts                   |  |
| 10:00  | <b>Is Chlorantraniliprole Efficacious Against the Silverleaf Whitefly?</b> <i>Alton N. Sparks, Jr.</i> (University of Georgia, Tifton)   |
| 10:12  | <b>Evaluating Transgenic <i>Bt</i> Soybean Lines for Suppressing Lepidopteran Populations and Crop Injury.</b> <i>Robert M. McPherson</i> , (University of Georgia, Tifton) and <i>Ted C. MacRae</i> (Monsanto Company, Chesterfield, MO)                      |
| 10:24  | <b>Pheromone Source and Volume Affect Capture of Brown Stink Bugs</b><br><i>Ted Cottrell</i> , (USDA, ARS, Byron GA)   |
| 10:36  | <b>Field-testing Stink Bug Pheromone for Capturing <i>Nezara viridula</i> in Baited Traps</b><br><i>Glynn Tillman</i> , (USDA- ARS, Tifton), <i>Ted Cottrell</i> (USDA- ARS, Tifton), <i>Jeff Aldrich</i> and <i>Ashot Khimian</i> (USDA- ARS, Beltsville, MD) |
| 10:48  | <b>Update of the UGA Hemlock Woolly Adelgid Predator Rearing Lab Activities.</b> <i>Gretchen Pettis</i> (University of Georgia, Athens)  |
| 11:00 – 12:00                                | <b>BUSINESS MEETING</b>  |
| 12:00 pm                                     | <b>ADJOURN</b>   |

| <b>POSTER DISPLAYS</b>  |  |
|---|--|
| <b>THURSDAY-FRIDAY, 3-4 April 2008</b><br><b>The Ridges Resort and Club Main Building Lobby</b>   |  |
| Posters will be on display continuously from 8:30 am to 5:00 pm on Thursday, 3 April, and from 8:00 am to 11:30 am on Friday, 4 April. Authors are asked to stand with posters from 8:00 – 8:30 am on Friday. |  |
| <b>STUDENT POSTER COMPETITION</b>   |  |
| SP-1  | <b>Phenology of <i>Leptodictya plana</i>: First Record in Georgia.</b> <i>Evelyn Carr</i> (University of Georgia, Athens)  |
| SP-2  | <b>The Role of Extension Entomology Specialists in the State of Georgia.</b> <i>Whitney Boozer</i> (University of Georgia, Athens)   |
| SP-3  | <b><i>Phaenochilus n. sp.</i>: A New Candidate for Biological Control of the Cycad aulacaspis scale.</b><br><i>Ronald D. Cave</i> (University of Florida, Ft. Pierce), <i>Ru Nguyen</i> (FDACS-DPI, Gainesville), <i>Veronica Manrique</i> (University of Florida, Ft. Pierce), <i>Natalia Vandenberg</i> (Agricultural Research Service, USDA, Washington D.C.), <i>Adriano Giorgi</i> (University of Georgia, Athens). |
| SP-4  | <b>Seasonal Pitfall Catch Around Urban Structures: A Preliminary Study.</b> <i>C. M. Scocco</i> and <i>D. R. Suiter</i> (University of Georgia, Griffin)   |

| <b>REGULAR POSTER DISPLAYS</b> |  |
|--------------------------------|--|
| DP-1                           | <b>Educating the Public About IPM Through Public Libraries.</b><br><i>Paul Guillebeau</i> (University of Georgia, Athens)  |
| DP-2                           | <b>Interaction of Conservation Tillage with Insecticides for Management of Thrips in Cotton.</b> <i>John All</i> (University of Georgia, Athens)   |
| DP-3                           | <b>Bugs and Birds in Costa Rica: Developing Interdisciplinary Programs Abroad.</b><br><i>Marianne Robinette</i> and <i>Ray Noblet</i> (University of Georgia, Athens)                                    |
| DP-4                           | <b>Elimination of Black Carpenter Ant Colonies with Gel Baits,</b> <i>Stephanie D. Thayer</i> and <i>Daniel R. Suiter</i> (University of Georgia, Griffin)   |
| DP-5                           | <b>Topical Toxicity of Nine Essential Oils Against the Black Carpenter Ant, <i>Camponotus pennsylvanicus</i>,</b> <i>Mercedes D. Guerra</i> and <i>Daniel R. Suiter</i> (University of Georgia, Griffin) |



**OFFICERS AND EXECUTIVE BOARD 2008-2009**

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Historian *Nancy Hinkle*

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**2009 LOCAL ARRANGEMENTS COMMITTEE**

*Scott Horn*, Chair Mike Ulyshen  
Dan Horton

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Paul Guillebeau Scott Horn

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*Phillip Roberts*, Co-Chair *Paul Guillebeau*, Co-Chair  
*Nancy Hinkle*, Co-Chair

**AWARDS AND RECOGNITION**

*Ted Cottrell*, Chair John Ruberson  
Kris Braman

**STUDENT AFFAIRS**

*William Irby* (2009), Chair Dan Horton (2010)  
Michael Toews (2011) Andrew Bigham

**NOMINATIONS**

*Kris Braman*, Chair Keith Griffith  
James Hanula

**AUDIT**

*Tracie Jenkins*, Chair Ray Noblet

**SITE SELECTION – 2010 (Joint Meeting with South Carolina)**

*William Irby*, Chair Alan Harvey  
Lance Durden

**GES SCHOLARSHIP**

*Kris Braman*, Chair Robert M. McPherson  
John All

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*Keith Griffith*, Chair Lisa Ames  
Scott Horn

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

*David Buntin*, Chair Dan Horton  
David Riley

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

*Dan Suiter*, Chair Xinzhi Ni  
John Ruberson

**U. E. BRADY AWARD (STUDENT POSTER)**

*Ted Cottrell*, Chair David Shapiro-Ilan  
Gretchen Pettis

**PHOTO SALON**

*Alton N. Sparks, Jr.*, Chair Babu Srinivasan  
David Riley Phillip Roberts

**RESOLUTIONS**

*Glynn Tillman*, Chair Will Hudson

**INDUSTRY PANEL**

*Keith Rucker* (Bayer), Chair  
Tony Weiss (Dow)

**MEMBERSHIP AND COMPUTER RESOURCES COMMITTEE**

*John All*, Chair Jim Dutcher  
Keith Griffith Todd Nims

**OPERATING GUIDELINES COMMITTEE**

*David Buntin*, Chair John Ruberson  
Wayne Gardner Paul Guillebeau

**SPORTING EVENTS (GOLF AND RUN/WALK)**

*Stormy Sparks*, Golf *John All*, Run/Walk  
Phillip Roberts

**MEETINGS OF THE  
GEORGIA ENTOMOLOGICAL SOCIETY**

**Meeting Dates**

2 April 1937  
 1 April 1938  
 28-30 Oct. 1938  
 6 May 1939  
 14 October 1939  
 6 April 1940  
 7 November 1940  
 5 April 1941  
 4 April 1942  
 21 March 1944  
 29 March 1946  
 10 April 1948  
 30 April 1949  
 3-4 March 1950  
 9-10 March 1951  
 7-8 March 1952  
 6-7 March 1953  
 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

**Location**

Agricultural Experiment Station, Experiment  
 Georgia Institute of Technology, Atlanta  
 Okefenokee Swamp, Fargo  
 Georgia State College for Women, Milledgeville  
 Agricultural Experiment Station, Experiment  
 Emory University, Atlanta  
 Agricultural Experiment Station, Experiment  
 Wesleyan College, Macon  
 Emory University, Atlanta  
 Piedmont Hotel, Atlanta  
 Agricultural Experiment Station, Experiment  
 Baldwin Hall-UGA, Athens  
 Jekyll Island Hotel, Jekyll Island  
 American Legion, Fort Valley  
 Abraham Baldwin Agricultural College, Tifton  
 Savannah Hotel, Savannah  
 Hotel Dempsey, Macon  
 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

**Meeting Dates**

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 May 2007  
 2-4 April 2008  
 1-3 April 2009  
 \*Joint meeting of the Georgia Entomological Society and the South Carolina Entomological Society

**Location**

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  
 Lake Blackshear Resort and Golf Club, Cordele  
 The Ridges Hotel and Resort, Hiawassee

## SPEAKER SCHEDULE

|                       |                |                |
|-----------------------|----------------|----------------|
| Abraham, Cheri        | Thursday 4/02  | 2:30 pm        |
| Ames, Lisa            | Thursday 4/02  | 11:00 am       |
| Boozer, Whitney       | Thursday 4/02  | 1:42 pm        |
| Braman, S. Kristine   | Thursday 4/02  | 11:20 am       |
| Brannon, Sonja        | Thursday 4/02  | 3:24 pm        |
| Buntin, G. David      | Friday 4/03    | 9:18 am        |
| Burkman, Erica        | Thursday 4/02  | 1:54 pm        |
| Cottrell, Ted         | Friday 4/03    | 10:24 am       |
| Dutcher, James        | Thursday 4/02  | 4:24 pm        |
| Eger, Joe             | Friday 4/03    | 8:54 am        |
| Forschler, Brian      | Thursday 4/02  | 10:40 am       |
| Fuest, Jamie          | Thursday 4/02  | 2:18 pm        |
| Giorgi, Jose Adriano  | Thursday 4/02  | 3:36 pm        |
| Griffith, Keith       | Thursday 4/03  | Industry Panel |
| Hadden, James         | Thursday 4/02  | Industry Panel |
| Harrison, Gerald      | Thursday 4/02  | Industry Panel |
| Headings, Mark E.     | Friday 4/03    | 8:42 am        |
| Hinkle, Nancy         | Thursday 4/02  | 11:40 am       |
| Hu, Jian              | Thursday 4/02  | 5:00 pm        |
| Joseph, Shimat V.     | Thursday 4/02  | 3:12 pm        |
| Lim, Su Yee           | Thursday 4/02  | 4:00 pm        |
| McPherson, Robert     | Friday 4/03    | 10:12 am       |
| Nair, Shakunthala     | Thursday 4/02  | 3:00 pm        |
| Ni, Xinzhi            | Friday 4/03    | 9:06 am        |
| Pettis, Gretchen      | Friday 4/03    | 8:18 am        |
| Ramsey, Glen          | Friday 4/03    | 8:30 am        |
| Riley, David          | Thursday 4/02  | 4:36 pm        |
| Roberts, Phillip      | Friday 4/03    | 9:30 am        |
| Rucker, Keith         | Thursday 4/02  | Industry Panel |
| Ruhl, Michael         | Thursday 4/02  | 1:30 pm        |
| Ruberson, John        | Thursday 4/02  | 4:48 pm        |
| Scocco, Chris         | Thursday 4/02  | 2:06 pm        |
| Smith, Jeff           | Thursday, 4/02 | Industry Panel |
| Sparks, Jr., Alton N. | Friday 4/03    | 10:00 am       |
| Stephens, C. Wesley   | Thursday 4/02  | 4:12 pm        |
| Tillman, Glynn        | Friday 4/03    | 10:36 am       |
| Zhang, Shu            | Thursday 4/02  | 3:48 pm        |

## POSTER PRESENTERS

|                     |                      |
|---------------------|----------------------|
| Boozer, Whitney     | Student Poster, SP-2 |
| Carr, Evelyn        | Student Poster, SP-1 |
| Giorgi, Adriano     | Student Poster, SP-3 |
| Scocco, Chris       | Student Poster, SP-4 |
| All, John N.        | Poster, DP-2         |
| Guillebeau, Paul    | Poster, DP-1         |
| Robinette, Marianne | Poster, DP-3         |
| Suiter, Daniel      | Poster, DP-4, DP-5   |

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## NOTES

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***Thanks to those who provided support for our meeting.***

**Amvac**

**Bayer Cropscience**

**Chemtura**

**Dow Agrosciences**

**Valent**

**University of Georgia Department of Entomology**

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

