

75th Annual Meeting

Georgia Entomological Society



6-8 April 2011

***Lake Blackshear Resort & Golf Club
Cordele, Georgia***

**GEORGIA ENTOMOLOGICAL SOCIETY
PRESIDENT
2010-2011**



Ted Cottrell

Welcome to the 75th meeting of the Georgia Entomological Society at the Lake Blackshear Resort and Golf Club! Enjoy a break from your normal routine and take this opportunity to meet your fellow GES members and learn about the exciting research our members are conducting. The diverse program should offer something for everyone. On Wednesday afternoon we start with the traditional Bug Run and Golf Tournament. Thursday morning features the Founder's Lecture honoring Keith Griffith as presented by Lance Peterson. Keith has been an ardent supporter of the GES and has worked with many of the GES members over the years bringing products to our growers. We then move forward featuring our Industry Panel to learn about new products available for 2011. Program Chair and President-Elect, David Riley, has put together the symposium "Recent Advances in Arthropod Vector Research" encompassing vectors of plant and vertebrate diseases for Thursday morning. Our Thursday luncheon will be held in Ballroom B and includes the GES Photo Salon, along with the announcement of the photo contest winners, and the presentation of the 2011 GES Fellow awards. This year we honor Beverly Sparks and Robert McPherson as our 2011 GES Fellows for their outstanding contributions to our profession for so many years. Following the luncheon will be the student paper competition, always a showcase of great presentations. Don't forget to visit the poster displays in the conference building lobby to see this part of the student competition, along with the contributed posters. After the contributed papers Thursday afternoon, we will meet in the conference building lobby for a light mixer and presentation of the student competition awards. Our enjoyable dinner cruise will follow and Friday morning we continue with contributed papers and close with the regular business meeting and presentation of the new GES President-Elect. Thanks to all the presenters, volunteers and our industry donors for making this meeting possible!

Ted Cottrell is a Research Entomologist with the USDA, ARS, Southeastern Fruit and Tree Nut Research Laboratory at Byron, GA. Ted received his undergraduate degree in Biology from the University of Kentucky followed by his MS degree in Entomology from Auburn University. He then returned to the University of Kentucky to complete his PhD in Entomology. He has been with ARS at Byron, GA since 1998 where he is assigned to conduct research on arthropods affecting production of peach and pecan.

SCHEDULE OF EVENTS

Wednesday, 6 April 2011

GES Golf Tournament	12:00 pm, Meet in Conference Lobby, Stormy Sparks
Entomology Run/Walk	4:00 pm, Meet in Conference Lobby, John All
Executive Committee	Cordelia's Restaurant 7:00 – 8:30 pm

Thursday, 7 April 2011

7:00 – 8:00 am	Continental Breakfast, Ballroom B
7:30 – 8:30 am	Registration, Conference Lobby
7:30 – 8:30 am	Poster Set Up, Conference Lobby
8:30 – 5:00 pm	Poster Displays, Conference Lobby
8:00 – 8:30 am	Welcome and Announcements, Blackshear Ballroom A
8:30 – 9:00 am	2011 Founders Lecture, Blackshear Ballroom A
9:00 – 9:45 am	Industry Panel, Blackshear Ballroom A
10:20 – 10:35 am	Break
10:00 – Noon	Symposium "Advances in Vector Research" Ballroom A
Noon – 1:30 pm	Luncheon & Photo Salon (2011 Fellows), Blackshear Ballroom B
1:30 – 2:30 pm	M.S. Student Paper Competition, Ballroom A
2:42 – 3:00 pm	Break
3:00 – 3:36 pm	Ph.D. Student Paper Competition, Ballroom A
3:36 – 4:36 pm	Contributed Papers, Ballroom A
4:48 – 5:15 pm	Student Awards Presentations Ballroom A
6:00 – 8:00 pm	Dinner Cruise

Friday, 8 April 2011

7:30 – 8:30 am	Continental Breakfast, Ballroom B
7:30 – 8:30 am	Registration, Conference Lobby
8:00 – 11:30 am	Poster Displays, Conference Lobby
8:00 – 8:30 am	Authors at Posters
8:30 – 9:42 am	Contributed Papers,
9:42 – 10:00 am	Break
10:00 – 10:48 am	Contributed Papers, Blackshear Ballroom A
11:00 – 12:00 pm	Business Meeting - adjourn at noon

**GEORGIA ENTOMOLOGICAL SOCIETY
2011 FOUNDER HONOREE**



Keith Griffith

Keith Griffith was born July 29, 1950 at Fort Campbell, KY. He grew up in rural Saluda County, SC, and attended Clemson University where he received his B.S. degree in Biology (Entomology Major) in 1972. Dr. Thomas E. Skelton was a major mentor for Keith in helping him develop a love for the science of entomology. Keith received his M.S degree in Entomology (minor in Plant Pathology) in 1974 under the direction of Dr. Richard C. Fox working in the forest entomology arena on the pine cinaran aphid complex. In September, 1974, he began his working career as an assistant county extension agent (Clemson Univ.) in Colleton County, SC where he started a 4-H Entomology Club that was very successful with 13 members. He then moved to Florence, SC in 1976 as an IPM Extension Entomologist located at the Pee Dee Experiment Station working primarily on cotton, but also tobacco, peanuts, soybeans, 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 and Keith was transferred to Orlando, Florida in late 1982, and has been located there with the Uniroyal Chemical Company organization (currently called Chemtura Corporation) for 29 years as Technical Sales Service / R & D representative through the present time working various state territories in the southeast. During his travels to Uniroyal headquarters in 1984, he met

Sally Bates and they were married April 20, 1985. The family grew with birth of Timothy in 1987 and Cathleen in 1988. During his career, Keith helped develop and label uses for various insecticides/acaricides, herbicides, fungicides, plant growth regulators, seed treatments, and foliar nutrients in agricultural and specialty crops in the US. He has been involved with working with and developing uses for the insect growth regulator, diflubenzuron (Dimilin) for 30 years. 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- Southeast Branch committees over the years, most recently the 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. He was honored as a Fellow of the Georgia Entomological Society at the 2007 meeting in Athens, GA. Keith continues to serve the entomology profession where needed and remains a dedicated “bug man.”

**GEORGIA ENTOMOLOGICAL SOCIETY
2011 FOUNDERS' LECTURER**



Lance Peterson

Lance G. Peterson was born and raised in Duluth Minnesota. He received his BA degree in Zoology with minors in Botany, Chemistry and Psychology from the University of Minnesota, Duluth (1962). He studied Insect Physiology and Biochemistry at the University of Wyoming (1962-63), and earned his PhD degree in Insect Physiology and Toxicology from the University of Illinois (1968).

Dr. Peterson retired from Dow AgroSciences in February of 2000, with the title of Advisor in Research and Development, after 32 ½ years of service in developing safe and environmentally friendly pest management systems for agriculture. During that tenure, he held a variety of research development, regulatory and management responsibilities throughout the United States, Africa, Latin America and Asia. His research involvement has included the discovery investigation of insect hormone mimics and insect chitinase inhibitors as insect control systems: developing nematode management techniques in tobacco, peanuts and a number of tropical crops; field research with novel systems to control termites in both urban and crop situations and developing fungicide programs for peanut, rice, apple, grape and several horticultural crop diseases. He has done field development work with herbicides in crops, rangeland and aquatic environments in the U.S. and around the world. His major research assignment prior to retirement was the development of spinosad, focusing on integrating it into IPM systems for the management of insect pests in agronomic and horticultural crops in the Southeast U.S.

In addition to his duties with Dow AgroSciences, Dr. Peterson was an Adjunct Professor with the Auburn University Department of Entomology; a Guest Member of the Graduate Faculty of Florida A & M University, serving on the M.S. Committee of one student and mentoring several others; and was a member of the University of Florida Graduate Faculty, by Special Appointment, where he served on the Graduate Committees of two Ph.D. candidates. He has also served as an Industry Consultant to the University of Georgia, Department of Pathology's Long Range Planning Strategy. He is the author or co-author of 23 publications and has given many oral presentations at National, Branch and State professional Society meetings.

Lance is a member of the ESA, the SEB-ESA, The Georgia Entomological Society (Past- President), The Florida Entomological Society (Past-President). He is a past member of The American Peanut Research & Education Society, and several Plant Pathology Societies. In addition, he was honored to be named a Fellow of the GES in 2006. He has served on a number of GES standing committees over the years including: GES Awards and Recognition, GES Scholarship, Site Selection, Nominations, Resolutions, Industry Panel, and has been a judge for the U. E Brady and O. I. Snapp Awards. In 2001, Dr. Peterson prepared the Georgia Entomological Society Operating Guidelines, an adaptation of the SEB-ESA Guidelines. This document continues to be a very useful tool for the officers and committee chairs of the GES.

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.

Georgia Entomological Society Founders and Lecturers

Year	Founder	Lecturer
1990	Theodore Bissell W.	Louis Tedders, Jr.
1991	Horace O. Lund	Preston E. Hunter
1992	Hamlin H. Tippins	Wayne A. Gardner
1993	U. Eugene Brady	C. Wayne Berisford
1994	Cedric R. Jordan	T. Don Canerday
1995	Clifford M. Beckham	Herbert Womack
1996	Oliver I. Snapp	Carroll E. Yonce
1997	T. Don Canerday	Max H. Bass
1998	Loy W. Morgan	Max H. Bass
1999	William F. Turner	Daniel L. Horton
2000	Preston E. Hunter	Raymond Noblet
2001	Harry O. Yates	James L. Hanula
2002	Alton N. Sparks	Beverly Sparks
2003	James H. Oliver	Richard L. Osburn
2004	Sturgis McKeever	Frank E. French
2005	Herbert H. Ross	J. Bruce Wallace
2006	Gary A. Herzog	Max H. Bass
2007	Jerry A. Payne	Ted E. Cottrell
2008	W. Louis Tedders, Jr.	Russell F. Mizell, III
2009	Ronald D. Oetting	Wayne A. Gardner
2010	Frank E. French	Daniel V. Hagan
2011	Keith Griffith	Lance Peterson

2011 FELLOWS OF THE GEORGIA ENTOMOLOGICAL SOCIETY



Beverly Sparks

Beverly Sparks is currently the Associate Dean for Cooperative Extension at the University of Georgia College of Agricultural and Environmental Sciences. Her educational background includes an A.S. in Agriculture in 1976 from Abraham Baldwin Agricultural College, a B.S. in Horticulture in 1978 and M.S. in Entomology in 1980 from The University of Georgia, and a Ph.D. in Entomology in 1983 from Louisiana State University. Beverly Sparks is known nationwide for controlling painful pests – most notably the red imported fire ant, a costly problem in Georgia. She's also known for strong leadership, a reputation that earned her a place as one of Georgia Trend's 2010 Power Women in Georgia. Sparks became the associate dean for extension of the University of Georgia College of Agricultural and Environmental Sciences in 2007. It was a job she spent her whole life preparing for, even before she knew it.

She grew up in Tifton, Georgia where her father worked as an entomologist, researcher and administrator for the United States Department of Agriculture. She earned a master's degree in entomology from UGA working under the direction of Drs. H. H. Tippins at the Georgia Experiment Station in Griffin and Preston Hunter on the Athens UGA campus. And, in 1983 she earned a Ph.D. in entomology at Louisiana State University working under the direction of Dr. Abe Oliver. Her graduate research projects focused on the taxonomy and control of scale insects infesting ornamental plants. Sparks found what would become her professional emphasis as she began her career as an urban entomologist for Texas A&M University in Dallas, Texas in 1983. Her responsibilities included working with county agents in 19 counties in north central Texas to develop pest management programs for turf, ornamental plants and household structural pests. Much of her work focused on the management of the red imported fire ant. In 1989, Dr. T. Don Canerday brought her to UGA where she has worked as an extension entomologist, departmental coordinator for extension entomologists, district director for northeast Georgia, assistant and associate dean for extension.

Throughout her career Sparks has participated and provided leadership for her professional societies. She maintains active memberships in the Entomological Society of America (ESA), the Georgia Entomological Society (GES), Georgia Association of County Agricultural Agents (GACAA), Georgia Association of Extension Family and Consumer Science Agents and Georgia Extension 4-H Agents Association. She has served ESA and GES through numerous committee and leadership assignments including co-chair of ESA national meeting in Atlanta, President-elect, President and Past-President of Southeastern Branch of Entomological Society of American, and Southeastern Branch representative to ESA Board of Certified Entomologist.



Robert McPherson

Bob McPherson's interest in entomology began during undergraduate studies for his Biology degree at Sam Houston State University, when he enrolled in Entomology 101. He has been fascinated with the biology and impacts of bugs ever since, receiving his M. S. and Ph. D. degrees in entomology at Louisiana State University. His Dissertation research centered on the dynamics and damage potential of stink bug pests on soybean, and stink bugs have remained an interest to him and his research programs throughout his career. Bob began his professional career at Virginia Tech, spending nearly nine years there (1978-1987) developing and implementing soybean and small grain IPM programs. In 1987, he accepted a position as Associate Professor of Entomology at UGA, conducting research in soybean and tobacco insect pest management at the Coastal Plain Experiment Station. He was promoted to Professor in 1994, the position that he held for the remainder of his career, until retiring in late 2008. Since retirement, he has been rehired by UGA on a part-time basis, as he completes several on-going research projects with soybean and tobacco. He recently relocated to the Georgia Mountain Research and Education Center, in Blairsville, GA, to concentrate on the newly established soybean aphid.

Dr. McPherson has received various awards for Extension and Research achievement during his career from Epsilon Sigma Phi, the Virginia Soybean Association, the American Soybean Association, Sigma Xi, the UGA Tifton Campus, and the ESA Southeastern Branch. Dr. McPherson co-authored 1 text book on the Stink Bugs of Economic Importance in North America, and authored or co-authored 10 book chapters, 96 refereed journal articles, and many other scientific articles and publications. He served as principal investigator or Co-PI for more than \$2.5 million in grant funding during his 30-year career. He has directed a large portion of his soybean research effort towards examining the field performance of transgenic Bt soybean, developing soybean germplasm with resistance to stink bugs and lepidopteran pests, and assessing the impact and management of soybean aphids. Dr. McPherson's tobacco entomology research has focused primarily on issues surrounding thrips and tomato spotted wilt interactions. During the last eight years of his UGA appointment, Dr. McPherson served as Entomology REI Coordinator for the Tifton Campus. He also served in numerous other leadership roles within Sigma Xi, the Georgia Entomological Society, ESA and the Tobacco Workers' Conference. Dr. McPherson was actively involved in graduate student advising and student training. He served as Advisor to 9 graduate students and served on 14 other graduate Advisory Committees. He also served as Advisor to 7 undergrad R.J. Reynolds interns. He team-taught ENTO 3740 and ENTO 4350, and guest-lectured in several graduate and undergraduate level courses at UGA. His professional career was truly blessed with the association of many wonderful people, fantastic travel opportunities, and generous support from many sources.

FELLOWS OF THE GEORGIA ENTOMOLOGICAL SOCIETY

1991	James H. Oliver, Jr
1992	Preston E. Hunter
1993	Alton N. Sparks
1994	J. Bruce Wallace
1995	Harry O. Yates, III
1998	Sturgis McKeever
2000	Rudolph T. Franklin
2001	W. Joe Lewis
2002	Richard B. Chalfant
2003	Ronald D. Oetting
2004	Frank E. French
2005	C. Wayne Berisford
2005	Daniel V. Hagan
2006	Wayne Gardner
2006	Lance Peterson
2007	James Dutcher
2007	Keith Griffith
2008	John All
2008	T. Don Canerday
2009	William Tietjen
2011	Beverly Sparks
2011	Robert McPherson

Thursday, 7 April, 2011	
OPENING SESSION	
Ballroom A	
President Ted Cottrell, presiding	
7:00 – 8:00 am	Registration, Resort Main Building Lobby Desk Breakfast in Ballroom B
7:30 – 5:00 pm	Presentation previews – – By arrangement w/Mike Toews
8:30 – 5:00 pm	Poster Displays, Resort Main Building Lobby Area (adjacent to meeting rooms)
8:00 – 8:30 am	Welcome and Announcements, Ballroom A
8:30 – 9:00 am	GES 2011 Founders Lecture Honoring Keith Griffith Presented by Lance Peterson
9:00 – 9:45 am	Industry Panel Moderator: <i>Jeff Smith</i> (Valent)
9:45 – 10:00 am	Break
10:00 – Noon	Symposium – “Recent Advances in Arthropod Vector Research in Georgia” Moderator: <i>John Ruberson</i>
10:00	Management of thrips-transmitted <i>Tomato spotted wilt virus</i> : the long and winding road. D. G. Riley , Department of Entomology, University of Georgia, Tifton, GA
10:30	Economically important insect-transmitted plant viruses in Georgia: current research efforts. R. Srinivasan ¹ , S. Sundaraj ¹ , S. Diffie ¹ , D. Riley ¹ , H. Pappu ² , and R. Gitaitis ³ ¹ Department of Entomology, University of Georgia, Tifton, GA, ² Department of Plant Pathology, Washington State University, Pullman, WA, ³ Department of Plant Pathology, University of Georgia, Tifton, GA
11:00	The blood feeder's tool box: Pharmacological and immune modulating properties of black fly and mosquito saliva. Don Champagne , Department of Entomology, University of Georgia, Athens.
11:30	"Research on tick systematics at the U.S. National Tick Collection. Recent advances." Lorenza Beati , Department of Biology, Georgia Southern University
12:00	Adjourn

Noon – 1:30 pm	Luncheon and Photo Salon , Ballroom B (recognition of 2011 GES Fellows) Moderator: <i>Lisa Ames</i>
Thursday, 7 April 2009 Blackshear Resort & Club, Ballroom A	
M.S. STUDENT PAPER COMPETITION Moderator: <i>Tracie Jenkins</i>	
1:30	A Summer Study of Blow Fly Communities on Baby Pig Carrion in Southern Georgia Pine Forests. Jocelyn G. Hyers ¹ , Morgan N. Vaughn ¹ , Jeffery K. Tomberlin ² , and Edward B. Mondor ² . ¹ Department of Biology, Georgia Southern University, ² Department of Entomology, Texas A&M University
1:42	Effect of <i>Tomato spotted wilt virus</i> infection on settling and oviposition of <i>Frankliniella fusca</i> . Anita Shrestha ¹ , Rajagopalbabu Srinivasan ¹ , Albert K. Culbreath ² and David G. Riley ¹ . Department of Entomology ¹ ; Department of Plant Pathology ² , University of Georgia, Tifton, GA 31793
1:54	The dead of winter: The effect of concealment on Calliphorid attraction to stillborn pig carcasses. Abigail Lee and Edward B. Mondor. Georgia Southern Univ.
2:06	Does aphid colony structure change in response to increased predation risk? Carl N. Keiser and Edward B. Mondor, Department of Biology, Georgia Southern University
2:18	The effects of predatory lacewing and lady beetle larvae on the distribution of black pecan aphids on pecan foliage: Is the leaf top an enemy-free space? Christian Paulsen ¹ , Ted Cottrell ² , John Ruberson ³ , ¹ University of Georgia, Department of Entomology, Athens, GA, ² USDA-ARS Southeastern Fruit and Tree Nut Research Station, Byron, GA, ³ University of Georgia, Department of Entomology, Tifton, GA
2:30	Adult Susceptibility of the Darkling Beetle, <i>Alphitobius diaperinus</i> : Topical Treatment with Spinosad, Bifenthrin, and Imidacloprid. Boozer, W. B. , N. C. Hinkle, J. N. All, and B. D. Fairchild, University of Georgia

PH.D. STUDENT PAPER COMPETITION	
Moderator: <i>David Riley</i>	
2:42 – 3:00	BREAK
3:00	Preliminary studies on virulence and efficacy of native strains of EPN against larva and adult of the hazelnut weevil. Laia Batalla-Carrera , Ana Morton, and Fernando Garcia del Pino. Department of Animal Biology, Vegetative Biology, and Ecology, Faculty of Bioscience. Autonomic University of Barcelona 08193 Bellaterra (Barcelona). Spain.
3:12	Movement of stink bug across Georgia farmscapes. Ta-I Huang and Michael Toews. Dept. of Entomology, Univ. of Georgia, Tifton, GA
3:24	Integrating Insecticides and Fungicides with Biocontrol in Greenhouse Gerbera. Cheri M. Abraham ¹ , S. Kristine Braman ¹ , Ron D. Oetting ¹ . ¹ Dept. of Entomology, Univ. of Georgia, Griffin, GA

Thursday, 7 April 2011	
Blackshear Resort & Club, Ballroom A	
CONTRIBUTED PAPER SESSION	
Moderator: <i>David Riley</i>	
3:36	Biology of <i>Aridelus rufotestaceus</i> (Hymenoptera: Braconidae), a parasitoid of stink bug nymphs. John R. Ruberson , Russell J. Ottens, Melissa D. Thompson, Univ. of Georgia, Tifton, GA
3:48	Oviposition Nonpreference by the Lesser Peachtree Borer (Lepidoptera: Sesiiidae) for <i>Prunus</i> Germplasm Ted E. Cottrell , SE Fruit and Tree Nut Research Laboratory, USDA Agricultural Research Service, Byron, GA
4:00	Exploring the mechanisms of resistance against thrips and <i>Tomato spotted wilt virus</i> (TSWV) in peanut genotypes. Sivamani Sundaraj ¹ , Rajagopalbabu Srinivasan ¹ , Albert Culbreath ² and David Riley ¹ ¹ Department of Entomology, University of Georgia, Tifton, GA-31793, ² Department of Plant Pathology, University of Georgia, Tifton, GA

4:12	Plant pest interactions in blueberry production. Moukaram Tertuliano and Harald Scherm. Univ. of Georgia, Department of Plant Pathology
4:24	Rapid detection of stink bug damaged cotton bolls Michael D. Toews ¹ , Adnan Mustafic ² , Jinjun Xia ^{2,3} , and Mark A. Haidekker ³ . ¹ Dept. of Entomology, University of Georgia, Tifton. ² Faculty of Engineering, University of Georgia, Athens. ³ Current Address: Dept. of Bioengineering, University of Washington, Seattle
4:36	An invasive 'superclone': Oleander aphid populations in the southern United States. Edward B. Mondor and J. Scott Harrison, Department of Biology, Georgia Southern University, Statesboro, GA 30460
4:48 – 5:15 pm	Student Awards Recognition
5:15 pm	Adjourn
6:00-8:00 pm	Dinner Cruise & Mixer



Friday, 8 April 2011 Blackshear Resort & Club, Ballroom A	
7:00 – 8:00 am	Registration, Resort Main Building Lobby Desk Breakfast in Ballroom B
7:30 – 11:00 am	Presentation previews –By arrangement w/Mike Toews
8:00 – Noon	Poster Displays, Resort Conference Building Lobby Area (adjacent to meeting room)
8:00 – 8:30 am	Authors at Posters
CONTRIBUTED PAPER SESSION Moderator: <i>Phillip Roberts</i>	
8:30	Diurnal Movement Pattern of the Brown Stink Bugs inside and near the Corn Fields at Flowering Time Xinzhi Ni ¹ , Ted E. Cottrell ² , G. David Buntin ³ , and Glynn Tillman ⁴ . ¹ USDA-ARS, Crop Genetics and Breeding Research Unit, Tifton, GA, ² USDA-ARS, Southeast Fruit and Tree Nut Research Laboratory, Byron, GA, ³ Department of Entomology, University of Georgia, Griffin, GA, ⁴ USDA-ARS, Crop Protection and Management Research Unit, Tifton, GA
8:42	Leaping somersaults and wind-powered wheels: rapid locomotion in larvae of the Southeastern Beach Tiger Beetle (<i>Cicindela dorsalis media</i>). Alan W. Harvey ¹ and Sarah Zukoff ² . ¹ Department of Biology, Georgia Southern University, ² Division of Plant Sciences, University of Missouri
8:54	Bt Traits for the Management of Lepidopteran Pests of Field Corn. G. David Buntin . John N. All, and R. Dewey Lee. ¹ Dept. of Entomology, Univ. of Georgia, Griffin GA, ² Dept. of Entomology, Univ. of Georgia, Athens, GA, ³ Dept. of Crop & Soil Sciences, Univ. of Georgia, Tifton, GA
9:06	Northern Fowl Mite (<i>Ornithonyssus sylviarum</i>) Populations Associated with Wild Bird Nests in Georgia. Hinkle, Nancy C. ¹ , Mark N. Freeman ² , Erin Anderson ³ , and Kristen J. Navara ³ . ¹ Dept. of Entomology, University of Georgia, Athens, GA, ² USDA-ARS Southeast Poultry Research Laboratory, Athens, GA, ³ Poultry Science Dept., University of Georgia, Athens, GA

9:18	The role of weeds in the epidemiology of thrips-transmitted <i>Tomato spotted wilt virus</i> in peanut production systems. R. Srinivasan ¹ , S. Diffie ¹ , D. Riley ¹ , and A. Culbreath ² . ¹ Department of Entomology, University of Georgia, Tifton, GA, ² Department of Plant Pathology, University of Georgia, Tifton, GA
9:30	Activity of Powderpost Beetles in an Infested Crawlspace. Daniel R. Suiter , Department of Entomology, Univ. of Georgia, Griffin, GA
9:42 – 10:00 am	BREAK

CONTRIBUTED PAPER SESSION (Continued)	
Moderator: <i>Phillip Roberts</i>	
10:00	Advances in using microbial control agents for control of insect pests in pecan and peach. David I. Shapiro-Ilan ¹ , Ted E. Cottrell ¹ , Russell F. Mizell III ² , Dan L. Horton ³ and Wayne Gardner ⁴ , ¹ USDA-ARS, Southeastern Fruit and Tree Nut Research Laboratory, Byron, GA, ² Department of Entomology, University of Florida, Quincy, FL, ³ Department of Entomology, University of Georgia, Athens, GA, ⁴ Department of Entomology, University of Georgia, Griffin, GA.
10:12	Biocontrol Agents and Whiteflies: Biorational Insecticides in Vegetable Crops. A.M. Simmons ¹ , and S. Abd-Rabou ² . ¹ USDA-ARS, U.S. Vegetable Laboratory, Charleston, SC, ² ARC, Plant Protection Research Institute, Dokki, Egypt.
10:24	Diamide resistance management recommendations for vegetable crops in the Southeast. Alton N. Sparks, Jr. , University of Georgia, Tifton, GA
10:36	The Footprint of a Plataspid Invader: A Story Written in Nucleotides. Tracie M. Jenkins and Tyler D. Eaton. Dept of Entomology, Univ. of Georgia, Griffin, GA
10:48	Temporal Susceptibility of Cotton to Early Season Thrips. Phillip Roberts and Mike Toews. University of Georgia, Tifton, GA
11:00 – 12:00	BUSINESS MEETING
12:00 pm	Adjourn

POSTER DISPLAYS	
THURSDAY-FRIDAY, 7-8 April 2011	
Blackshear Resort and Club Conference Building Lobby	
Posters will be on display continuously from 8:30 am to 5:00 pm on Thursday, 7 April, and from 8:00 am to 11:30 am on Friday, 8 April. Authors are asked to stand with posters from 8:00 – 8:30 am on Friday.	
STUDENT POSTER COMPETITION	
SP-1	What protects <i>Pieris</i> against the Andromeda Lace bug? Shakunthala Nair (PhD) and S. Kristine Braman, Department of Entomology, University of Georgia, Griffin, GA
SP-2	Thrips and <i>Orius</i> sp. behavioral studies in pepper and tomato. Jureerat Rattanatip (PhD) ¹ , David G. Riley ¹ and Shimat V. Joseph ² . ¹ Dept of Entomology, Univ of Georgia, Tifton, GA, ² Alson H. Smith, Jr. Agricultural Research and Extension Center Winchester, VA
SP-3	Overwintering Strategies of the Lesser Peachtree Borer <i>Synanthedon pictipes</i> (Lepidoptera: Sesiidae). Chelsey Killingsworth (MS) ^a , Ian Brown Ph.D ^a , Ted Cottrell Ph.D ^b , ^a Georgia Southwestern State University, 800 GSW State University Drive, Americus, GA ^b SE Fruit and Tree Nut Research Laboratory, USDA Agricultural Research Service, 21 Dunbar Road, Byron, GA
REGULAR POSTER DISPLAYS	
DP-1	Some Recent Invasive Insect Species Found in Georgia Lisa M. Ames , Dept. of Entomology, University of Georgia, Griffin, GA
DP-2	Early Season Sprays of Diflubenzuron, Formulated as Dimilin 2L, Increase Pecan Nut Set and Yield – Field Research and Demonstration Plots. Jim Dutcher ¹ , Will Hudson ¹ , Lenny Wells ² , Keith Griffith ³ . ¹ Entomology Department, University of Georgia, ² Horticulture Department, University of Georgia, ³ Chemtura AgroSolutions
DP-3	Seasonal Abundance Reproductive Biology of Brown Stink Bugs. John J. Herbert and Michael D. Toews Dept. of Entomology, University of Georgia, Tifton, GA

OFFICERS AND EXECUTIVE BOARD 2010-2011

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 Historian *Nancy Hinkle*

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Nancy Hinkle, Co-Chair
Paul Guillebeau, Co-Chair

AWARDS AND RECOGNITION

Ted Cottrell, Chair
 Stormy Sparks
 James Hadden
 David Riley

STUDENT AFFAIRS

Michael Toews (2011), Chair
 Quentin Fang (2012)
 Carl N. Keiser
 Whitney Boozer
 Ed Mondor (2013)

NOMINATIONS

James Hanula, Chair
 David Riley
 John Ruberson

AUDIT

Michael Toews, Chair
 David Buntin

SITE SELECTION – 2012

Alan Harvey (GSU), Chair
 Lance Durden (GSU)
 Stormy Sparks

GES SCHOLARSHIP

James Hadden, Chair
 John Ruberson
 S. Kris Braman

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

Ed Mondor, Chair
 John All
 Dan Suiter
 Alvin Simmons

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

Alvin Simmons, Chair
 Mark Blackmore
 Ian Brown

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

George Mbata, Chair
 Babu Srinivasan
 Alan Harvey

U. E. BRADY AWARD (STUDENT POSTER)

David Shapiro-Ilan, Chair
 John Herbert
 Stormy Sparks

PHOTO SALON

Lisa Ames., Chair
 S. Kristine Braman
 G. David Buntin
 Tracie Jenkins
 Wayne A. Gardner

RESOLUTIONS

Hap Tietjen, Chair
 Ann Amis

INDUSTRY PANEL

Jeff Smith, Chair

MEMBERSHIP AND COMPUTER RESOURCES COMMITTEE

Glynn Tillman, Chair
 Terry All

OPERATING GUIDELINES COMMITTEE

Dawn Olson, Chair
 Wayne Gardner
 John Ruberson
 Alton "Stormy" Sparks, Jr.

SPORTING EVENTS (GOLF AND RUN/WALK)

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

Past Presidents of the GES

1937 C. H. Alden	1976 Jerry E. Payne, Sr..
1938 C. H. Alden	1977 V. Rodney Coleman
1939 Theodore L. Bissell	1978 R. H. Perstage
1940 P. M. Gilmer	1979 R. B. Henderson
1941 C. H. Alden	1980 James O. Howell
1942 M. M. Murphy, Jr.	1981 Alton N. Sparks
1944 P. W. Fatrtig	1982 U. Eugene Brady, Jr.
1946 Oliver I. Snapp	1983 R. F. Nash
1948 W. H. Clarke	1984 W. Louis Tedders, Jr.
1949 Horace O. Lund	1985 Herbert Womack
1950 J. C. Alden	1986 J. B. O'Neil
1951 G. G. Rohwer	1987 J. Larry Zettler
1952 W. G. Bruce	1988 James H. Oliver, Jr.
1953 William F. Turner	1989 Louise G. Henry
1954 W. E. Blassingame	1990 William L. Tietjen
1955 F. E. Allison	1991 Jerry A. Payne
1956 Cedric R. Jordan	1992 James R. Collins
1957 H. E. Johnson	1993 T. Don Canerday
1958 Clifford M. Beckham	1994 Michael A. Mullen
1959 H. Laudani	1995 Keith H. Griffith
1960 J. W. Maxwell	1996 Frank E. French
1961 O. K. Fletcher, Jr.	1997 Robert E. Lynch
1962 W. W. Wells	1998 Sandy Newell
1963 E. W. Beck	1999 James D. Dutcher
1964 Loy W. Morgan	2000 James E. Carpenter
1965 H. H. Tippins	2001 Lance G. Peterson
1966 H. L. Pollard	2002 Daniel V. Hagan
1967 H. D. Purswell	2003 James L. Hannula
1968 J. W. Kilpatrick	2004 G. David Buntin
1969 Preston E. Hunter	2005 Wayne A. Gardner
1970 R. B. Comoly	2006 Robert M. McPherson
1971 R. Davis	2007 John N. All
1972 L. M. Redlinger	2008 S. Kristine Braman
1973 J. B. O'Neil	2009 John Ruberson
1974 Rudolph T. Franklin	2010 James Hadden
1975 Horace O. Yates, III	

NOTES



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

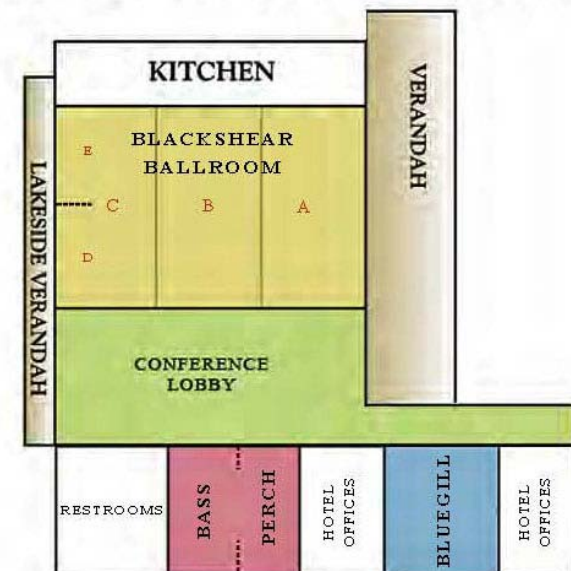
Meeting Dates

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
 6-8 October, 2010*
6-8 April 2011

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
 Hickory Knob State Park, McCormick, SC
Lake Blackshear Resort & Golf Club, Cordele

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



SPEAKER SCHEDULE

Abraham, Cheri M.	Thursday 4/07	3:24 pm
Batalla-Carrera, Laia	Thursday 4/07	3:00 pm
Beati, Lorenza	Thursday 4/07	11:30 am
Boozer, W.	Thursday 4/07	2:30 pm
Buntin, G. David	Friday 4/08	8:54 am
Champagne, Don	Thursday 4/07	11:00 am
Cottrell, Ted E.	Thursday 4/07	3:48 pm
Harvey, Alan W.	Friday 4/08	8:42 am
Hinkle, Nancy C.	Friday 4/08	9:06 am
Huang, Ta-I	Thursday 4/07	3:12 pm
Hyers, Jocelyn G.	Thursday 4/07	1:30 pm
Jenkins, Tracie M.	Friday 4/08	10:36 am
Keiser, Carl N.	Thursday 4/07	2:06 pm
Lee, Abigail	Thursday 4/07	1:54 pm
Mondor, Ed	Thursday 4/07	4:36 pm
Ni, Xinzhi	Friday 4/08	8:30 am
Paulsen, Christian	Thursday 4/07	2:18 pm
Riley, D. G.	Thursday 4/07	10:00 am
Roberts, Phillip	Friday 4/08	10:48 am
Ruberson, John R.	Thursday 4/07	3:36 pm
Shapiro-Han, David I.	Friday 4/08	10:00 am
Shrestha, Anita	Thursday 4/07	1:42 pm
Simmons, A. M.	Friday 4/08	10:12 am
Sparks, Jr., Alton N.	Friday 4/08	10:24 am
Srinivasan, R.	Friday 4/08	9:18 am
Srinivasan R.	Thursday 4/07	10:30 am
Suiter, Daniel R.	Friday 4/08	9:30 am
Sundaraj, Sivamani	Thursday 4/07	4:00 pm
Tertuliano, Moukaram	Thursday 4/07	4:12 pm
Toews, Michael D.	Thursday 4/07	4:24 pm

POSTER PRESENTERS

Killingsworth, Chelsey	Student Poster SP-3
Nair, Shakunthala	Student Poster SP-1
Rattanatip, Jureerat	Student Poster SP-2
Ames, Lisa M.	Poster, DP-1
Dutcher, Jim	Poster, DP-2
Herbert, John J.	Poster, DP-3

NOTES

Thanks to those who provided support for our meeting:

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

