

78th Annual Meeting
**Georgia Entomological
Society**



9 – 11 April, 2014

James H. Rainwater Conference Center
Valdosta, Georgia



PRESIDENT • 2013-2014

Gerald Harrison



Welcome to South Georgia and the 78th annual meeting of the Georgia Entomological Society. You have already noticed that the topography and elevation in Valdosta is much different than our meeting site last year in Amicalola Falls State Park. We've gone from one extreme to another—mountainous to flat. Valdosta is home to Valdosta State University, Valdosta High School (the winningest high school football program in the US—22 state titles and 6 national titles) and Moody Air Force

Base. Situated halfway between Atlanta and Orlando, hundreds of thousands have passed by Rainwater Conference Center on I-75 on their way to see Mickey.

You did well electing Scott Horn as your President-Elect and Program Chair because he has been most conscientious in this role and I thank him for his hard work. You will note that he has assembled an outstanding program for Thursday and Friday. Early Thursday, we will recognize and honor Dr. Dick Chalfant as a GES Founder and Dr. Dan Horton as a GES Fellow. Later that morning, Scott will introduce the 2014 GES Symposium “Current, Emerging and Potential Pests of Southern Forests and Forestry”. During lunch, don't forget to visit the Photo Salon and vote for your favorite so that we can announce the People's Choice Award. Thursday afternoon, we will have the Master's and Ph.D. student paper competitions, where I'm sure we'll hear 10 outstanding presentations. Later on Thursday and continuing on Friday morning will be 19 contributed paper presentations. Thanks to everyone for your submissions.

This year, we will have 20 posters on display and they will be in the proximity of our GES Mixer early Thursday evening. Please visit this area and view the hard work that went into these poster presentations.

Much gratitude is expressed to everyone (program participants, committees and industry sponsors) who, together, will make the 78th GES Meeting a successful one.

Gerald Harrison received his BS degree in Agronomy at Virginia Tech and MS degree in Soil-Pesticide Interactions at NC State University. He has been employed by industry for over 40 years in various roles (field research and product development, technical service and sales). He currently is a Technical Sales Support Representative for Amvac Chemical Corporation. He has experience with all crop protection chemicals (insecticides, fungicides, nematocides, herbicides, and PGR's) during four decades of employment in six southeastern states. Gerald considers himself an agriculturist with no particular specialty. His wife, Wendy Harrison, is an English Professor at ABAC and they live in Tifton. Their twin daughters are in their third year in the College of Agriculture and Environmental Sciences at UGA in Athens.



SCHEDULE OF EVENTS

Wednesday, 9 April 2014

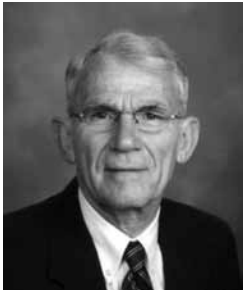
- 1:00 P.M. Golf Tournament (*Meet at Stone Creek Golf Club by 12:30 P.M.*)
- 4:00 – 6:00 P.M. Registration (*Hampton Inn Lobby*)
- 5:00 P.M. Entomology Run/Walk with John All (*Meet in Hampton Inn Lobby*)
- 7:00 – 8:00 P.M. Executive Committee Meeting (*Meeting Room 201*)

Thursday, 10 April 2014

- 7:00 – 8:00 A.M. Breakfast (*Complimentary – Hotel Breakfast Area*)
- 7:00 – 8:30 A.M. Registration (*outside Gazebo 2*)
- 7:00 – 8:30 A.M. Poster Set Up (*Azalea*)
- 8:30 – 5:00 P.M. Poster Displays (*Azalea*)
- 8:00 – 8:15 A.M. Welcome and Announcements (*Gazebo 2*)
- 8:15 – 8:45 A.M. 2014 Founders Lecture (*Gazebo 2*)
- 8:45 – 9:00 A.M. Recognition of 2014 GES Fellow (*Gazebo 2*)
- 9:00 – 9:45 A.M. Industry Panel (*Gazebo 2*)
- 9:45 -10:00 A.M. **Break**
- 10:00 – 11:55 A.M. Symposium (*Gazebo 2*)
- Noon – 1:30 P.M. Luncheon & Photo Salon (*Tulip-Rose*)
- 1:30 – 2:30 P.M. B.S./M.S. Student Paper Competition (*Gazebo 2*)
- 2:30 – 3:10 P.M. Ph.D. Student Paper Competition (*Gazebo 2*)
- 3:10 – 3:40 P.M. **Break**
- 3:40 – 4:40 P.M. Contributed Paper Session (*Gazebo 2*)
- 4:40 – 5:00 P.M. Student Awards Presentations (*Gazebo 2*)
- 6:00 – 7:00 P.M. GES Mixer (*Gardenia-Azalea*)

Friday, 11 April 2014

- 7:00 – 8:00 A.M. Breakfast (*Complimentary – Hotel Breakfast Area*)
- 7:00 – 8:00 A.M. Registration (*outside Gazebo 2*)
- 7:30 – 11:30 A.M. Poster Displays (*Azalea*)
- 7:30 – 8:00 A.M. Authors at Posters
- 8:00 – 9:00 A.M. Contributed Paper Session (*Gazebo 2*)
- 9:00 – 9:30 A.M. **Break**
- 9:30 – 10:40 A.M. Contributed Paper Session (*Gazebo 2*)
- 10:45 – 11:45 P.M. Business Meeting



FOUNDER HONOREE • 2014

Richard B. Chalfant

Dr. Chalfant was born August 15, 1929 in Akron, Ohio. He graduated with distinction with a B.S. in Zoology from the University of Akron in 1954. He was accepted into graduate school at the University of Wisconsin where he majored in Entomology and minored in Plant Pathology and there received his M.S. in 1956 and PhD in 1959. He then accepted an assistant professorship at N.C.

State University where he did research in insect pests of vegetable crops at the Mountain Horticultural Crops Research Station near Asheville.

In May of 1966 he accepted a position with the Entomology Department at the Coastal Plain Experiment Station in Tifton, Georgia. Initially, he did research on the Southern Corn Rootworm affecting peanuts, migration of the fall armyworm, and continued with studies on management of insect pests affecting the major vegetable crops of the southern coastal plain. He worked on pests of sweet corn, southern peas, sweet potato, tomato, squash, cabbage, collards, mustard greens, pole beans and lima beans. He believed in collaborative - crop based research and was involved in management of insect pests affecting vegetables grown in deep sandy soils. His many joint authorship papers in his 92 refereed journal articles attest to the strong collaborative nature of his vegetable entomology program. He stayed involved with the Georgia Entomological Society throughout his career.

His research on cowpeas ("southern peas") took him to become a member of the Bean-Cowpea Collaborative Research Project in Cameroon in western Africa where the cowpea is a major food crop. He and a student set up a field research project in the northern part of that country. He was an advisor to 5 PhD students, 4 of which were from developing countries in Africa and served on 2 MS committees. His sweet potato work resulted in foundational pest management papers like "Ecology and Management of Sweet Potato Insects" in the Annual Review of Entomology along with graduate student training. His last PhD student became a vegetable entomologist at the University of Florida, Homestead where Dr. Seal continues to work. Dr. Chalfant retired in April of 1995, but left a legacy of important, applied vegetable entomology research that continues to be cited.



FOUNDERS' LECTURER • 2014

David G. Riley



Dr. Riley is a professor and member of the graduate faculty in the Department of Entomology at The University of Georgia (UGA). Prior to his current position, he worked for 5 1/2 years as a vegetable research entomologist with Texas A&M University. His academic training includes a PhD at the University of Florida in 1990, a MS at North Carolina State University in 1986 and a BS at the University of Georgia in 1981. He also spent 2 years as an agricultural extension Peace Corps volunteer in Ecuador, S.A. from 1981-83. Dr. Riley's specialty is vegetable insect management with emphasis on the control of insect virus vectors and coleopteran pests of vegetables.

He has served as principal investigator for research grants in the amount of \$3,971,404 and his total direct grant involvement is \$5,906,173. \$3,381,043 of these external grant awards were from the highly competitive USDA Regional Integrated Pest Management, RAMP or IPM CRSP programs. Dr. Riley has authored or co-authored 9 book chapters, 71 refereed journal articles, 27 published proceedings or bulletins, 7 eternally reviewed experiment station/extension publications, 58 experiment station reports, and 26 non-refereed journal articles and over 140 abstracts. Dr. Riley has presented 32 invited papers at national and international meetings, 101 invited talks at regional meetings, 69 submitted papers to national and international meetings, and 90 submitted talks at regional or local meetings. He has served as major advisor for 15 graduate students and served on 10 other graduate committees developed a new course, ENTO 4350/6350 Crop Specific Insect Management, and taught/co-taught ENTO 4000/6000 General Entomology at the UGA Tifton Campus. His career has focused on providing practical solutions for complex pest-crop problems in high value vegetable crops such as the management of whiteflies and thrips and the viruses they transmit. He recently is refocusing on some major weevil pests of vegetables.





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.

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, Jr.	C. Wayne Berisford
1994	Cedric R. Jordan	T. Don Canerday
1995	Clifford M. Beckham	Herbert Womack
1996	Oliver I. Snapp, Sr.	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, III	James L. Hanula
2002	Alton N. Sparks	Beverly Sparks
2003	James H. Oliver, Jr.	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
2012	John N. All	James D. Dutcher
2013	Wayne A. Gardner	G. David Buntin
2014	Richard B. Chalfant	David G. Riley



FELLOW • 2014

Dan Horton

In 1982 Dan Horton, Professor, began his professional career at the University of Georgia (UGA) with an appointment in Cooperative Extension. He is currently the UGA Entomology Department Extension Coordinator, College Pesticide Safety Education Coordinator & has a joint appointment at Clemson as Fruit Entomologist. He has broad experience as an extension specialist for several commodities but has spent much of his effort in fruit entomology with emphasis on Peaches, Blueberries and Apples. Dan became fascinated with fruit culture and its many challenges while working as a teenager on his uncle's peach farm. Dan attended Clemson University for a BS in Zoology (1973), and MS in Entomology (1978) and received a PhD from the University of Arkansas (1982). That was a big year for Dan professionally (received his PHD and was hired as Assistant Professor at UGA) and personally (marriage with Denise). Their Daughter Rachel grew up in Athens, received a BS at VPI and works in ag-chem sales with DuPont.



Dan is a noted innovator and leader in regionalization of southeastern fruit programs. He initiated the Southeastern Peach IPM program and has been the Peach IPM Coordinator at UGA and Clemson. He is the senior author of the Southeastern Peach, Nectarine and Plum IPM and Culture Guide which is produced annually and is the goto guide for growers in the region. Dan has been presented many awards for excellence including Entomological Society of America's Southeastern Branch Distinguished Achievement Award in Extension, D. W. Brooks Faculty Award for Excellence in Extension, Clemson University, Cooperative Extension Achievement Award to the Peach Team, Mr. Peach Award, Georgia Peach Council, W.B. Hill Award (UGAs highest award for outreach), Carol R. Miller Distinguished Service Award, 1997 (National Peach Council's highest award for scientists), Lincoln Memorial Lecturer, University of Arkansas, Department of Entomology, University of Georgia Distinguished Service in Public Service Medal, IPM Team, etc. Dan's appointment at UGA has been close to 100% in cooperative extension but he has cotaught "Ornamental Pest Management", PATH 4360/6360, for several years. He is active as an advisor of students in the Master of Plant Protection and Pest Management Program, and has served as major advisor and advisory committee member of several PHD and MS students in entomology.

Dan is unreserved in his devotion to improving and implementing IPM for fruit growers in Georgia, and the southeast. Much of his career has been spent helping SE peach growers adapt to the impacts of FQPA (Food Quality Protection Act), with its requirements for lower risk insecticides to borer & scale issues. He hopes to see Peach Tree Borer/Lesser Peach Tree Borer mating disruption finally become a commercial reality prior to retirement.



FELLOWS OF THE GEORGIA ENTOMOLOGICAL SOCIETY

1991 James H. Oliver, Jr	2006 Wayne Gardner
1992 Preston E. Hunter	2006 Lance Peterson
1993 Alton N. Sparks	2007 James Dutcher
1994 J. Bruce Wallace	2007 Keith Griffith
1995 Harry O. Yates, III	2008 John All
1998 Sturgis McKeever	2008 T. Don Canerday
2000 Rudolph T. Franklin	2009 William Tietjen
2001 W. Joe Lewis	2011 Beverly Sparks
2002 Richard B. Chalfant	2011 Robert McPherson
2003 Ronald D. Oetting	2012 G. David Buntin
2004 Frank E. French	2013 Kristine Braman
2005 C. Wayne Berisford	2013 Tracie Jenkins
2005 Daniel V. Hagan	2014 Dan Horton



THURSDAY, 10 APRIL 2014

7:00 – 8:30 A.M. **Registration** (outside Gazebo 2)

Poster setup (Azalea)

7:30 – 5:00 P.M. **Load Talks onto Computer** (see Mark Blackmore)

8:30 – 5:00 P.M. **Poster Displays** (Azalea) *Thanks to Jim Dutcher for bringing the boards!*

Opening Session

GAZEBO 2 • PRESIDENT GERALD HARRISON, PRESIDING

8:00 – 8:15 A.M. Welcome and Announcements

8:15 – 8:45 A.M. 2014 GES Founders Lecture honoring **Richard B. Chalfant**, presented by **David G. Riley**

8:45 – 9:00 A.M. Recognition of 2014 GES Fellow, **Dan Horton** presented by **John All**

9:00 – 9:45 A.M. Industry Panel
Moderator: **Keith Rucker** (Bayer)

9:45 – 10:00 A.M. **Break**

10:00 – 11:55 A.M. **Symposium – “Current, Emerging, and Potential Pests of Southern Forests and Forestry”**

10:00 A.M. Introduction: **Scott Horn** (USDA Forest Service, Athens, GA)

10:10 A.M. Hemlock Woolly Adelgid: The Tiny Killer of Giants. **Angela Mech** (Warnell School of Forestry & Natural Resources, University of Georgia, Athens, GA)

10:30 A.M. Redbay Ambrosia Beetle and Laurel Wilt – The End of Redbay and Sassafras in Georgia? **James L. Hanula** (USDA Forest Service, Athens, GA)

10:50 A.M. Driving Me Nuts: Walnut Twig Beetle and Thousand Cankers Disease in the South. **Albert “Bud” Mayfield** (USDA Forest Service, Asheville, NC)

11:10 A.M. Emerald Ash Borer in Georgia. **Michael D. Ulyshen** (USDA Forest Service, Starkville, MS)

11:30 A.M. Ecology and Management of *Sirex noctilio* in Non-native Pine Forests. **Kamal J.K. Gandhi** (Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA)

11:50 A.M. Question and Answer Session for All Speakers

NOON – 1:30 P.M. **Luncheon (Tulip-Rose)**

Photo Salon (Tulip-Rose)

Moderator: **Lisa Ames** (UGA)



B.S./M.S. Student Paper Competition

GAZEBO 2 • MODERATOR: MICHAEL TOEWS

- 1:30 P.M. Evaluation of repellency of micro-encapsulated trail pheromone to the Argentine ant (*Linepithema humile*). **Jacob Holloway**. Department of Entomology, University of Georgia, Griffin, GA.
- 1:40 P.M. Efficacy of selected classes of insecticide for managing stink bugs (Hemiptera: Pentatomidae) in Georgia Cotton. **Brian A. Little** and Michael D. Toews. Department of Entomology, University of Georgia, Tifton, GA.
- 1:50 P.M. Cultural practices to reduce thrips densities and disease transmission in peanut. **Ian Knight**, Albert Culbreath and Michael D. Toews. Department of Entomology, University of Georgia, Tifton, GA.
- 2:00 P.M. Role of Cotton Crop as a Thrips Reservoir and as a Tomato spotted wilt virus (TSWV) Inoculum Source: Effects on Thrips Fitness and Transmission of TSWV. **Kathleen Marasigan**¹, Rajagopalbabu Srinivasan¹, Michael Toews¹, Mark Abney¹, and Robert Kemerait, Jr.². ¹Department of Entomology, University of Georgia, Tifton, GA. ²Department of Plant Pathology, University of Georgia, Tifton, GA.
- 2:10 P.M. Caching in the Southeastern Beach Tiger Beetle (*Cicindela dorsalis*). **Alyson Anderson**. Department of Biology, Georgia Southern University, Statesboro, GA.
- 2:20 P.M. Impacts of Fire on Bark Beetle Assemblages in Longleaf (*Pinus palustris*) of Southwest Georgia. **Courtney L. Brissey**¹, Kamal J.K. Gandhi¹, and Lindsay R. Boring². ¹Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. ²J. W. Jones Ecological Research Center, Newton, GA.

Ph.D. Student Paper Competition

GAZEBO 2 • MODERATOR: PHILLIP ROBERTS

- 2:30 P.M. Interactive Lucid key to the world species of *Noviini* (Coccinellidae: Coleoptera). **Kwevitoukoui "Brad" Hounkpati**¹, Juanita A. Forrester¹ and Joseph V. McHugh¹. ¹Department of Entomology, University of Georgia, Athens, GA and ²Division of Science, Chattahoochee Technical College, Marietta, GA.
- 2:40 P.M. Comparison of TSWV-infected and non-infected *Frankliniella fusca* transcriptomes. **Anita Shrestha**¹, Donald E. Champagne¹, Gaelen Burke¹, Albert Culbreath², Dorith Rotenberg³, and Rajagopalbabu Srinivasan¹. ¹Department of Entomology, ²Department of Plant Pathology, University of Georgia, Tifton, GA and ³Department of Plant Pathology, Kansas State University, Manhattan, KS.



- 2:50 P.M. Macroinvertebrate community responses to annual flow variation from river regulation: an 11-year study. **Courtney R. Holt**¹, Don Pfitzer², Chris Scalley², Broughton A. Caldwell³, and Darold P. Batzer¹. ¹Department of Entomology, University of Georgia, Athens, GA., ²Chattahoochee Coldwater Fishery Foundation, Roswell, GA., and ³Florida State Collection of Arthropods, Gainesville, FL.
- 3:00 P.M. Host preference of *Megacopta cribraria* (Hemiptera: Plataspidae) on selected edible beans and soybean. **Joni Blount** and David Buntin. Department of Entomology, University of Georgia, Griffin, GA.

3:10 – 3:40 P.M. Break

Contributed Paper Session

GAZEBO 2 • MODERATOR: DAN SUITER

- 3:40 P.M. The role of crape myrtle, *Lagerstoemia* spp., in augmentation of pollinators. **Russell F. Mizell, III** and T. Charles Riddle. Department of Entomology, University of Florida, Quincy, FL.
- 3:50 P.M. SE Agricultural Stink Bug ID & GA Cotton Pest Advisor: Expanding the IPM Box with IT. Michael D. Toews¹, Charles T. Barger^{1,2}, Phillip Roberts¹ and **G. Keith Douce**^{1,2}. ¹Department of Entomology, ²Center for Invasive Species & Ecosystem Health, University of Georgia, Tifton, GA.
- 4:00 P.M. Sap beetle populations and damage in Bt field corn. **G. David Buntin**. Department of Entomology, University of Georgia, Griffin, GA.
- 4:10 P.M. New Records of Biting Midges of the Genus *Culicoides* Latreille from the Southeastern United States (Diptera: Ceratopogonidae). **Stacey L. Vigil**¹, William Grogan², John C. Wlodkowski¹, Joshua Parris¹, Suzanne Edwards de Vargas¹, David Shaw¹, Christopher Cleveland¹, and Joseph L. Corn¹. ¹Southeastern Cooperative Wildlife Disease Study (SCWDS), Department of Population Health, College of Veterinary Medicine, University of Georgia, Athens, GA and ²Florida State Collection of Arthropods, Gainesville, FL.
- 4:20 P.M. What is an Outreach Entomologist? **Marianne Shockley**. Department of Entomology, University of Georgia, Athens, GA.
- 4:30 P.M. Monsters Inside Me: Cutaneous Myiasis or Delusory Parasitosis? **Edward B. Mondor**¹ and **Nancy C. Hinkle**². ¹Department of Biology, Georgia Southern University, Statesboro, GA and ²Department of Entomology, University of Georgia, Athens, GA.

4:40 – 5:00 P.M. Student Awards Presentations

6:00 – 7:00 P.M. GES Mixer



FRIDAY, 11 APRIL 2014

7:00 – 8:00 A.M. **Registration** (outside Gazebo 2)

7:30 – 9:30 A.M. **Load Talks onto Computer** (see Mark Blackmore)

7:30 – 11:30 A.M. **Poster Displays** (Azalea)

Contributed Paper Session

GAZEBO 2 • MODERATOR: WILL HUDSON

- 8:00 A.M. Thrips Risk in Cotton: Are Supplemental Foliar Insecticides Needed? **Phillip Roberts** and Michael D. Toews. Department of Entomology, University of Georgia, Tifton, GA.
- 8:10 A.M. Impact of resistant tomato cultivars on *Tomato yellow leaf curl virus* and its whitefly vector *Bemisia tabaci* (Hemiptera: Aleyrodidae). **Saioa Legarrea**, Wendy Marchant, Stan Diffie and Rajagopalbabu Srinivasan. Department of Entomology, University of Georgia, Tifton, GA.
- 8:20 A.M. Life when you are small: tritrophic interaction on azaleas. **Kris Braman**. Department of Entomology, University of Georgia, Griffin, GA.
- 8:30 A.M. Thrips mediated transmission of bacteria pathogenic to onion. **Rajagopalbabu Srinivasan**¹, Bhabesh Dutta², Apurba Barman³, Diane Ullman⁴, and Ronald Gitaitis². ¹Department of Entomology, University of Georgia, Tifton, GA. ²Department of Plant Pathology, University of Georgia, Tifton, GA. ³Department of Entomology, Texas A & M University, Lubbock, TX. ⁴Department of Entomology & Nematology, University of California, Davis, CA.
- 8:40 A.M. Collecting insects, mainly Pentatomoidea, in northern Peru. **Joe Eger**. Dow AgroSciences, Tampa, FL.
- 8:50 A.M. Insects and Death: The Case of the Dead Man's Shoes. **Edward B. Mondor**. Department of Biology, Georgia Southern University, Statesboro, GA.

9:00 – 9:30 A.M. **Break**

Contributed Paper Session (cont.)

MODERATOR: YANZHUO ZHANG

- 9:30 A.M. Managing Soil Insect Pests of Sweetpotato with Insecticides Applied Through Drip Irrigation. **Mark R. Abney**¹ and Amber Arrington². ¹Department of Entomology, University of Georgia, Tifton, GA and ²Department of Entomology, North Carolina State University, Raleigh, NC.



FRIDAY, 11 APRIL 2014

9:40 A.M. Practical Value of Insect Resistant Soybean. **John All**¹, Phillip Roberts³, Zenglu Li², Wayne Parrott², and Roger Boerma². ¹Department of Entomology and ²Department of Crops and Soil Sciences, University of Georgia, Athens, GA. ³Department of Entomology, University of Georgia, Tifton, GA.

9:50 A.M. Recruiting Citizen Scientists to Conduct an Intensive Insect Survey. **Nancy C. Hinkle**. Department of Entomology, University of Georgia, Athens, GA.

10:00 A.M. Fall armyworm and corn earworm resistance in the breeding crosses of maize inbreds with high levels of phytoalexins. **Xinzh Ni**¹, Alisa Huffaker², and Eric Schmelz². ¹USDA-ARS, Crop Genetics and Breeding Research Unit, Tifton, GA and ²USDA-ARS, Center for Medical, Agricultural, and Veterinary Entomology, Gainesville, FL.

10:10 A.M. Potential for Predation on Pentatomidae by Coccinellidae. **Ted Cottrell**¹ and Glynn Tillman². ¹USDA, ARS, Byron, GA and ²USDA, ARS, Tifton, GA.

10:20 A.M. Monitoring and management strategies for spotted wing drosophila. **Ash Sial**. Department of Entomology, University of Georgia, Athens, GA.

10:30 A.M. Using insect ecology to solve real world problems. **Michael D. Toews** and Phillip Roberts. Department of Entomology, University of Georgia, Tifton, GA.

10:45 – 11:45 P.M. **Business Meeting**





Student Poster Competition

(AZALEA ROOM)

- SP-1 Interactive Identification Key for the Hard Ticks (Acari: Ixodidae) of the Eastern United States. **Michael Bischof**. Department of Biology and the Institute of Coastal Plain Science, Georgia Southern University, Statesboro, GA.
- SP-2 A Morphological and Genetic Analysis of Forensically Important Blow Flies, from Georgia: The Genus *Lucilia*. **Katie S. Googe**, J. Scott Harrison, and Edward B. Mondor. Georgia Southern University, Statesboro, GA.
- SP-3 Pavlov's aphids: Can aphids associate novel stimuli with increased predation risk? **Jessica Durrence** and Edward B. Mondor. Georgia Southern University, Statesboro, GA.
- SP-4 My...what a big accessory oral sclerite you have! Does wintergreen oil clear maggots as effectively as potassium hydroxide? **Kathryn Rodenberger** and Edward B. Mondor. Georgia Southern University, Statesboro, GA.
- SP-5 The elusive post-mortem interval formula: Accelerated insect decomposition of infant-sized remains. **Kathryn Rodenberger** and Edward B. Mondor. Georgia Southern University, Statesboro, GA.
- SP-6 Insect-Related Attitudes: Understanding how the Public Perceives "Bugs". **Bethany Harris** and S. Kristine Braman. Department of Entomology, University of Georgia, Griffin, GA.
- SP-7 *Ixodes scapularis*: comparing mitochondrial, nuclear, and microsatellite markers for the study of its genetic structure. **John Ludwig** and Lorenza Beati. Institute for Coastal Plain Science, Georgia Southern University, Statesboro, GA.
- SP-8 Mitochondrial 12S Ribosomal RNA Gene Sequences as an Informative Phylogenetic Marker for Systematic Analysis of the Subgenera of the Genus *Amblyomma* Koch (Ixodidae). **Hunter Seabolt** and Lorenza Beati. Institute for Coastal Plain Science, Georgia Southern University, Statesboro, GA.
- SP-9 Impacts of Silviculture on Bark Beetle Assemblages in Longleaf (*Pinus palustris*) of Southwest Georgia. **Courtney L. Brissey**¹, Kamal J.K. Gandhi¹, and Lindsay R. Boring². ¹Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA and ²J. W. Jones Ecological Research Center, Newton, GA.
- SP-10 A Timely Death: Are post-mortem models of body temperature declines accurate for infant-sized remains? **Miranda Walters** and Edward B. Mondor. Georgia Southern University, Statesboro, GA.
- SP-11 Postfloral Nectaries and Facultative Mutualisms on *Richardia scabra* (Rubiaceae). **Alexandra Dorfzaun** and Alan Harvey. Department of Biology, Georgia Southern University, Statesboro, GA.



Regular Poster Displays

(AZALEA ROOM)

- RP-1 Termites and flooding affect microbial communities in dead wood. **Michael D. Ulyshen**¹ and **Susan V. Diehl**². ¹USDA Forest Service, Southern Research Station, Starkville, MS and ²College of Forest Resources, Mississippi State University, Starkville, MS.
- RP-2 Biology and control of *Prionus* root borers in Georgia pecan orchards. **Jim Dutcher**. Department of Entomology, University of Georgia, Tifton, GA.
- RP-3 Preliminary Study of *Laricobius nigrinus* egg releases to establish this predator of Hemlock Woolly Adelgid. **Yanzhuo Zhang**¹, Cera Jones², James L. Hanula³, Scott Horn², Raymond Noble¹, and Rusty Rhea³. ¹Department of Entomology, University of Georgia, Athens, GA, ²USDA Forest Service, Athens, GA. and ³USDA Forest Service, FHP, Asheville, NC.
- RP-4 Bugwood Apps: Integrating smartphones into invasive species, forestry, agricultural & natural area education and survey programs. Charles T. Barger^{1,2}, Rustico David^{1,2}, T. Jordan Daniel^{1,2}, Joseph LaForest^{1,2}, **G. Keith Douce**^{1,2} & David J. Moorhead^{2,3}. ¹Department of Entomology, ²Center for Invasive Species & Ecosystem Health, ³Warnell School of Forest and Natural Resources, University of Georgia, Tifton, GA.
- RP-5 Utilizing partnerships & information technology to advance invasive species, forestry & agriculture education: The Bugwood Center for Invasive Species & Ecosystem Health. **G. Keith Douce**^{1,2}, David J. Moorhead^{2,3}, Charles T. Barger^{1,2} and Joseph LaForest^{1,2}. ¹Department of Entomology, ²Center for Invasive Species & Ecosystem Health, ³Warnell School of Forest and Natural Resources, University of Georgia, Tifton, GA.
- RP-6 Cloning and characterization of *Dermacentor variabilis* Ferritin Gene. **Quentin Q. Fang**. Department of Biology, Georgia Southern University, Statesboro, GA.
- RP-7 Influence of host plant on *Leptoypa hospita* (Hemiptera: Tingidae) growth and fecundity. **Cera Jones**, Yanzhuo Zhang, Scott Horn, James L. Hanula. USDA Forest Service, Athens, GA.
- RP-8 Management of the Cowpea Curculio, *Chalcodermus aeneus*, in Southern Peas. Jenna Kicklighter and **David Riley**. Department of Entomology, University of Georgia, Tifton, GA.
- RP-9 The Mediterranean recluse, *Loxosceles rufescens* (Dufour): Its identification and distribution in Georgia. **Lisa Ames**. Homeowner Insect & Weed Diagnostics Lab, University of Georgia, Griffin, GA.



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PAST MEETINGS OF THE GES



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
12-13 March 1954	Ida Dunlap Little Library -UGA, Athens
4-5 March 1955	Radium Springs Hotel, Albany
8-9 March 1956	Manger Hotel, Savannah
19-20 March 1957	Rock Eagle 4-H Club Center, Eatonton
5-7 March 1958	King and Prince Hotel, St. Simons Island
4-5 March 1959	Radium Springs Hotel, Albany
30-31 March 1960	New Chemistry Building-UGA, Athens
8-9 March 1961	Wanderer Motel, Jekyll Island
20-22 March 1962	Radium Springs Hotel, Albany
20-22 March 1963	Holiday Inn, Pine Mountain
26-27 March 1964	Corsair Motel, Jekyll Island
9-11 March 1965	Downtown Holiday Inn, Atlanta
23-25 March 1966	Stuckey's Carriage Inn, Jekyll Island
21-23 March 1967	Manger Hotel, Savannah
19-21 March 1968	Elks Club, Albany
18-20 March 1969	Stuckey's Carriage Inn, Jekyll
17-19 March 1970	Downtowner Motor Inn, Albany
16-18 March 1971	DeSoto Hilton, Savannah
15-17 March 1972	King and Prince Hotel, St. Simons Island
28-30 March 1973	Macon Hilton Hotel, Macon
13-15 March 1974	Holiday Inn, Athens
19-21 March 1975	King and Prince Hotel, St. Simons Island
17-19 March 1976*	DeSoto Hilton, Savannah



PAST MEETINGS OF THE GES

16-18 March 1977	Downtowner Motor Inn, Albany
15-17 March 1978	King and Prince Hotel, St. Simons Island
21-23 March 1979*	Quality Inn, Hilton Head Island, SC
19-21 March 1980	Ramada Inn West, Macon
18-19 March 1981	Rural Development Center, Tifton
24-26 March 1982	History Village Inn & Conference Center, Athens
23-25 March 1983	Downtowner Motor Inn, Albany
21-23 March 1984	Buccaneer Motor Lodge, Jekyll Island
20-22 March 1985	Rural Development Center, Tifton
24-26 March 1986*	Sheraton Resort & Country Club, Savannah
18-20 March 1987	Quality Inn- Buccaneer, Jekyll Island
23-25 March 1988	Georgia Southern Col., Statesboro
22-24 March 1989	Univ. of Georgia, Athens
28-30 March 1990	Unicoi Lodge & Conference Center, Helen
27-29 March 1991	Callaway Gardens, Pine Mountain
25-27 March 1992	Clarion Resort Buccaneer, Jekyll Island
24-26 March 1993	Georgia Center for Continuing Ed., Athens
23-25 March 1994*	Sheraton Charleston Hotel, Charleston, SC
29-31 March 1995	Merry Acres Motel, Albany
27-29 March 1996	Holiday Inn-Midtown, Savannah
16-17 April 1997	Unicoi State Park, Helen
16-17 April 1998	Buccaneer Motor Lodge, Jekyll Island
14-16 April 1999	Rural Development Center, Tifton
6-7 April 2000	Georgia Center for Continuing Education, Athens
4-6 April 2001*	Georgia Mountain Center, Gainesville
3-5 April 2002	Georgia Southern University, Statesboro
2-4 April 2003	Holiday Inn, Jekyll Island
31 March - 2 April 2004	Callaway Gardens, Pine Mountain
30 March - 1 April 2005	Georgia Center for Continuing Education, Athens
29-31 March 2006	Holiday Inn, Jekyll Island
16-18 May 2007	Georgia Center for Continuing Education, Athens
2-4 April 2008	Lake Blackshear Resort and Golf Club, Cordele
1-3 April 2009	The Ridges Hotel and Resort, Hiawassee
6-8 October, 2010*	Hickory Knob State Park, McCormick, SC
6-8 April 2011	Lake Blackshear Resort & Golf Club, Cordele
4-6 April 2012	Holiday Inn, Statesboro
10-12 April 2013	Amicalola Falls State Park, Dawsonville

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



SPEAKER SCHEDULE

ABNEY, MARK	FRIDAY, 11 APRIL	9:30 A.M.
ALL, JOHN	FRIDAY, 11 APRIL	9:40 A.M.
ANDERSON, ALYSON	THURSDAY, 10 APRIL	2:10 P.M.
BLOUNT, JONI	THURSDAY, 10 APRIL	3:00 P.M.
BRAMAN, KRIS	FRIDAY, 11 APRIL	8:20 A.M.
BRISSEY, COURTNEY	THURSDAY, 10 APRIL	2:20 P.M.
BUNTIN, DAVID	THURSDAY, 10 APRIL	4:00 P.M.
COTTRELL, TED	FRIDAY, 11 APRIL	10:10 A.M.
DOUCE, KEITH	THURSDAY, 10 APRIL	3:50 P.M.
EGER, JOE	FRIDAY, 11 APRIL	8:40 A.M.
GANDHI, KAMAL	THURSDAY, 10 APRIL	11:30 A.M.
HANULA, JIM	THURSDAY, 10 APRIL	10:30 A.M.
HINKLE, NANCY	THURSDAY, 10 APRIL	4:30 P.M.
	FRIDAY, 11 APRIL	9:50 A.M.
HOLLOWAY, JACOB	THURSDAY, 10 APRIL	1:30 P.M.
HOLT, COURTNEY	THURSDAY, 10 APRIL	2:50 P.M.
HOUNKPATI, BRAD	THURSDAY, 10 APRIL	2:30 P.M.
KNIGHT, IAN	THURSDAY, 10 APRIL	1:50 P.M.
LEGARREA, SAIOA	FRIDAY, 11 APRIL	8:10 A.M.
LITTLE, BRIAN	THURSDAY, 10 APRIL	1:40 P.M.
MARASIGAN, KATHLEEN	THURSDAY, 10 APRIL	2:00 P.M.
MAYFIELD, BUD	THURSDAY, 10 APRIL	10:50 A.M.
MECH, ANGELA	THURSDAY, 10 APRIL	10:10 A.M.
MIZELL, RUSSELL	THURSDAY, 10 APRIL	3:40 P.M.
MONDOR, ED	THURSDAY, 10 APRIL	4:30 P.M.
	FRIDAY, 11 APRIL	8:50 A.M.
NI, XINZHI	FRIDAY, 11 APRIL	10:00 A.M.
RILEY, DAVID	THURSDAY, 10 APRIL	8:15 A.M.
ROBERTS, PHILLIP	FRIDAY, 11 APRIL	8:00 A.M.
SHOCKLEY, MARIANNE	THURSDAY, 10 APRIL	4:20 P.M.
SHRESTHA, ANITA	THURSDAY, 10 APRIL	2:40 P.M.
SIAL, ASH	FRIDAY, 11 APRIL	10:20 A.M.
SRINIVASAN, BABU	FRIDAY, 11 APRIL	8:30 A.M.
TOWES, MICHAEL	FRIDAY, 11 APRIL	10:30 A.M.
ULYSHEN, MICHAEL	THURSDAY, 10 APRIL	11:10 A.M.
VIGIL, STACEY	THURSDAY, 10 APRIL	4:10 P.M.

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