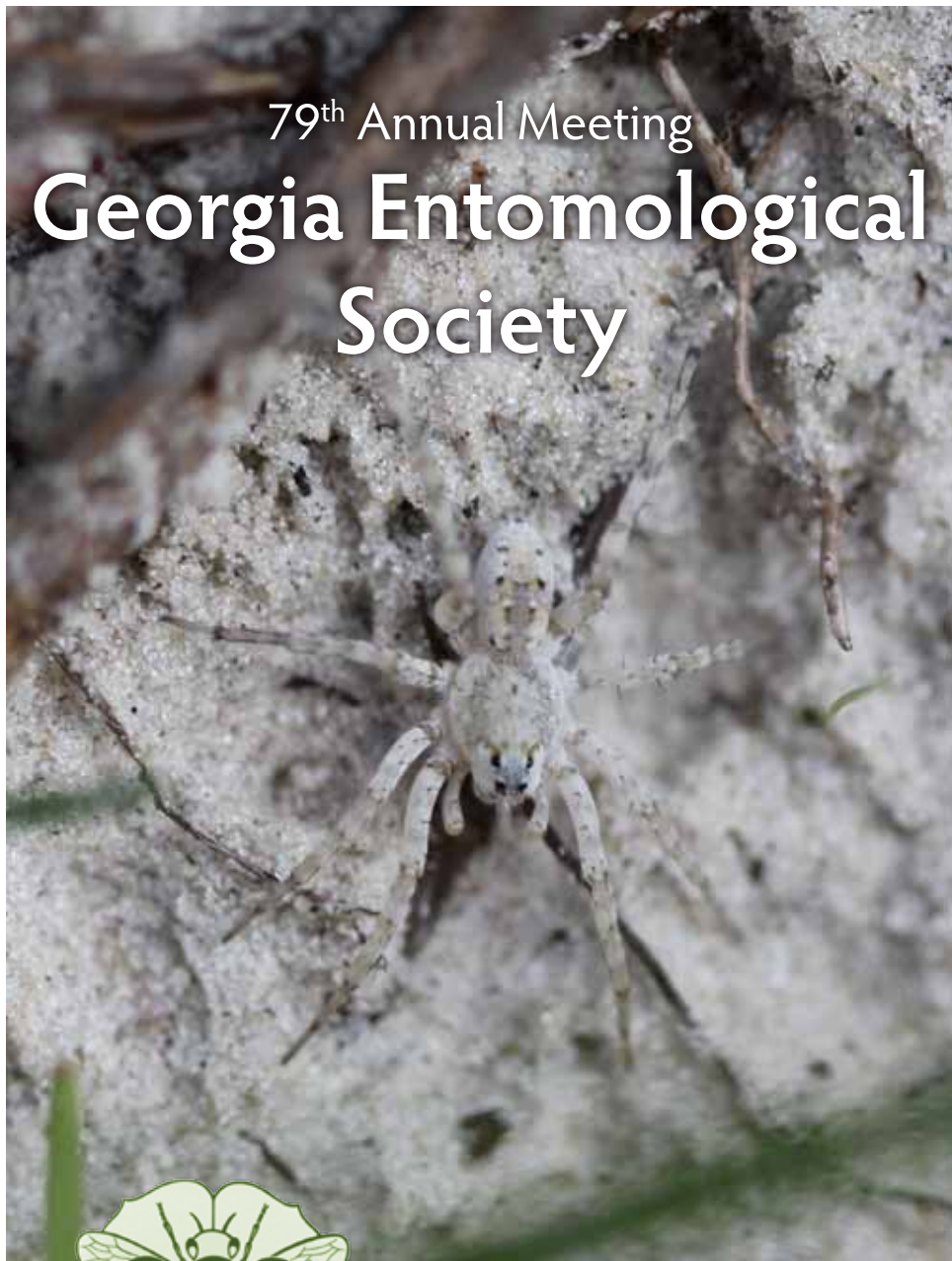


79th Annual Meeting
**Georgia Entomological
Society**



8 – 10 April, 2015

**Villas by the Sea
Jekyll Island, Georgia**



PRESIDENT • 2014-2015

Scott Horn

Welcome to the beautiful Georgia coast and the 79th annual meeting of the Georgia Entomological Society. It has been almost 10 years since the meeting was last held at Jekyll Island and I know everyone is excited to be back down to one of Georgia's Golden Isles. Even though the island is only 7 miles long and 1.5 miles wide, it boasts 8 miles of sandy beaches and over 20 miles of trails perfect for hiking and biking. The north end of the island has both natural and cultural significance—Driftwood beach (just north of our hotel)

is a famous and picturesque location most known for the boneyard of pine and oak trees littering the beachfront. Also make sure to visit the Horton House, built in 1742 during the British Colonial Period it serves as an example of typical coastal construction of the time and is one of the oldest surviving buildings in the state. Perhaps the most well-known part of the island is the Jekyll Island Club Historic district, where the hotel is listed on the National Register of Historic Places. In addition, the area has many well-preserved historic cottages that house museums, art galleries, and bookstores.

I want to thank Will as President-Elect for putting together a wonderful program. On Wednesday afternoon we will have our traditional Bug Fun Run and Golf Tournament. The main meeting Thursday will begin with the Founder's Lecture honoring Jim Dutcher of UGA, and presented by Will Hudson. Jim has made significant contributions to improve control strategies for insect and mite pests of commercial pecan orchards in Georgia and is highly deserving of the recognition. We will also honor Jim Hanula of the Forest Service as a GES Fellow. Jim has been active in GES for years and recognized many times for his work in Forest Entomology and most recently for

CONTINUED ON PAGE 15

Scott Horn received his BS degree in Wildlife Science from Auburn University. He worked on many wildlife projects as an undergraduate student ranging from alligators, to birds, to gopher tortoises. He then got his MS degree in Entomology from the University of Georgia looking at how dead wood influenced prey of the endangered red-cockaded woodpecker. He has been employed by the USDA Forest Service for the past 13 years as an Entomologist working on a broad range of topics. Early research looked at the effects of different forest management practices on various insect communities. Recent work has focused on the control of Chinese privet, an invasive shrub and how that benefits pollinators. He enjoys hiking, fishing, kayaking and traveling with his wife Kelly who is a flight attendant with Delta Airlines.



SCHEDULE OF EVENTS

Wednesday, 8 April 2015

- 1:00 P.M. Golf Tournament (*Meet in Lobby*)
- 4:00 - 6:00 P.M. Registration (*Villas Lobby*)
- 5:00 P.M. Entomology Run/Walk with John All (*Meet in Villas Lobby*)
- 7:00 - 8:00 P.M. Executive Committee Meeting (*Meet in Villas Lobby*)

Thursday, 9 April 2015

- 7:00 - 8:00 A.M. Breakfast (*on your own*)
- 7:00 - 8:00 A.M. Registration (*Conference Center Lobby*)
- 7:00 - 8:00 A.M. Poster Set Up (*Retreat A*)
- 8:00 - 5:00 P.M. Poster Displays (*Retreat A*)
- 8:00 - 8:30 A.M. Welcome and Announcements (*Wildhorn-Hopeton*)
- 8:30 - 9:00 A.M. 2015 Founders Lecture (*Wildhorn-Hopeton*)
- 9:00 - 9:15 A.M. Recognition of 2015 GES Fellow (*Wildhorn-Hopeton*)
- 9:15 - 10:00 A.M. Industry Panel (*Wildhorn-Hopeton*)
- 10:00 - 10:15 A.M. **Break**
- 10:15 - Noon Symposium (*Wildhorn-Hopeton*)
- Noon - 1:30 P.M. Luncheon & Photo Salon (*Wildhorn-Hopeton*)
- 1:30 - 3:00 P.M. B.S./M.S. Student Paper Competition (*Wildhorn-Hopeton*)
- 3:00 - 3:30 P.M. **Break**
- 3:30 - 4:00 P.M. B.S./M.S. Student Paper Competition (*cont'd*)
- 4:00 - 4:30 P.M. Ph.D. Student Paper Competition (*Wildhorn-Hopeton*)
- 5:00 - 7:00 P.M. Awards and GES Mixer (*Retreat A & B*)

Friday, 10 April 2015

- 7:00 - 8:00 A.M. Breakfast (*on your own*)
- 7:00 - 8:00 A.M. Registration (*Conference Center Lobby*)
- 8:00 - 11:30 A.M. Poster Displays (*Retreat A*)
- 8:00 - 9:30 A.M. Contributed Paper Session (*Wildhorn-Hopeton*)
- 9:30 - 10:00 A.M. **Break** (Authors at Posters)
- 10:00 - 11:30 A.M. Contributed Paper Session (*Wildhorn-Hopeton*)
- 11:30 - 12:30 P.M. Business Meeting (*Wildhorn-Hopeton*)



FOUNDER HONOREE • 2015

James D. Dutcher



Dr. James D. Dutcher conducts research to innovate and improve control strategies for insect and mite pests of commercial pecan orchards in Georgia.

Jim became interested in Entomology as a boy scout in Detroit in 1962 working on a collecting project with Dr. Schmitt, the local dentist and amateur insect collector.

He went to Michigan State University and finished his

master's degree in 1975. He conducted his M.S. research at the Trevor Nichol's Station in Fennville where he worked with Dr. Howitt on insect pests of 16 different fruit crops growing along the Lake Michigan coast. Jim continued on to UGA where he worked on grape root borer with Dr. John All, receiving his Ph.D. in 1978. He was hired at the University of Georgia and assigned to the Coastal Plain Experiment Station during the summer of 1978 as the research entomologist for pecans, where he has continued to work until today.

Jim's research interest is focused on integrated pest management of insect and mite pests of pecans in Georgia where ~50% of the U.S. pecan nuts are produced on 170,000 acres. He works each season with many cooperators in the pecan industry including researchers in the S-1049 regional research project, pecan growers, consultants and IPM scouts, chemical company representatives, extension specialists and county agents. The research has produced: effective biological control strategies for pecan aphids and mites; results of field efficacy trials in the support of registration for all insecticides and miticides currently used by pecan growers; effective monitoring methods for aphidophagous insects, aphids and mites, pecan weevil, hickory shuckworm, and *Prionus* root borers; identifications for many new parasitoids and predators in the pecan system; methods for evaluating host plant resistance to aphids in pecan cultivars. Dr. Dutcher's current projects are aerial monitoring for aphids and aphidophagous insects and spiders, organic pecan production, *Prionus* root borer and obscure scale control with integrated methods and biological control of phytophagous mites.



FOUNDERS' LECTURER • 2015

Will Hudson



Dr. Will Hudson is a native of Alabama. He earned his B.S. and M.S. degrees from Auburn University and his Ph.D. from the University of Florida where his research involved the ecology and management of invasive mole crickets. After a post-doc stint at UF in Howard Frank's lab working with biocontrol of those mole crickets, Will took a job at the University of Georgia as an Extension specialist at the Coastal Plains Experiment Station (now the Tifton Campus, UGA) in Tifton, GA in 1988. His responsibilities initially included management programs for insect pests of turf and ornamentals, and identification of specimens sent or brought to the Tifton Extension Entomology offices. He is also the fishbait entomologist. Will's responsibilities were expanded in 2001 to include pests of pecans, and permanent grass pastures and hayfields. Will moved to Athens in 2011, but retains the same commodity assignments.



JEKYLL ISLAND BONEYARD BEACH



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
2015	James D. Dutcher	Will Hudson



FELLOW • 2015

James L. Hanula

Jim grew up in Pennsylvania not far from the Hershey chocolate factory. After high school he attended Henderson Co. Junior College in Athens, TX and then Texas A&M University, where he received a B.S. in forest management in 1978 and was a member of the university's Undergraduate Fellows Program. The later was his first opportunity to conduct research on a forest insect and that experience lead him to pursue entomology as a career. He moved to Georgia and received his M.S. in forest entomology in 1981,



working on the biology and control of elm bark beetles under the direction of Dr. Wayne Berisford, and a Ph.D. in 1983, working on pheromones and host attractants of pine coneworms with Dr. Gary DeBarr and Dr. Bersiford. After a stint as a post-doc he accepted a position as assistant entomologist at the Connecticut Agricultural Experiment Station in New Haven, CT working on IPM of insects pests of turf grass and ornamentals. His work included studies of two previously unknown pathogens of Japanese beetles, and lead to more effective control strategies for black vine weevil and rhododendron gall midge.

In 1991, Jim accepted a position as a research entomologist with the USDA Forest Service's Southern Research Station in Athens, GA. Jim was the first entomologist hired by the Forest Service to look at the functional role of insects in forests within the context of "ecosystem management". This lead to a 10-year project investigating the diet of an endangered woodpecker, where their prey comes from, and how forest management affects prey availability. Results of this work were used in the revision of the red-cockaded woodpecker recovery plan. Spin offs from this work lead to investigations of the effects of riparian hardwood forest gap size and age on insects and their use by birds in that habitat, the effects of prescribed burning on ground dwelling arthropods, and to the role of dead trees and their insect associates in forests.

More recently, Jim's work has focused on invasive insects including hemlock woolly adelgid, redbay ambrosia beetle and kudzu bug. In addition, he has been examining the effect of an invasive shrub, Chinese privet, on riparian forest ecosystems and on biological control of this weed. He didn't completely abandon his ecosystem management roots though, and has conducted several studies on pollinators in forest habitats.

Jim has had the privilege of working with a number of graduate students, including this year's GES president. He is a member of several societies including GES where he has served on committees, as a subject editor of the journal, and as president in 2003. His work on pollinators has been recognized by the North American Pollinator Protection Campaign and the U.S. Forest Service



FELLOWS OF THE GEORGIA ENTOMOLOGICAL SOCIETY

- | | |
|--------------------------|-----------------------|
| 1991 James H. Oliver, Jr | 2006 Lance Peterson |
| 1992 Preston E. Hunter | 2007 James Dutcher |
| 1993 Alton N. Sparks | 2007 Keith Griffith |
| 1994 J. Bruce Wallace | 2008 John All |
| 1995 Harry O. Yates, III | 2008 T. Don Canerday |
| 1998 Sturgis McKeever | 2009 William Tietjen |
| 2000 Rudolph T. Franklin | 2011 Beverly Sparks |
| 2001 W. Joe Lewis | 2011 Robert McPherson |
| 2002 Richard B. Chalfant | 2012 G. David Buntin |
| 2003 Ronald D. Oetting | 2013 Kristine Braman |
| 2004 Frank E. French | 2013 Tracie Jenkins |
| 2005 C. Wayne Berisford | 2014 Dan Horton |
| 2005 Daniel V. Hagan | 2015 Jim Hanula |
| 2006 Wayne Gardner | |



PHOTO BY DR. ALAN HARVEY



THURSDAY, 9 APRIL 2015

- 7:00 - 8:00 A.M. **Registration** (Conference Center Lobby)
- 7:00 - 8:00 A.M. **Poster setup** (Retreat A)
- 7:00 - 8:00 A.M. **Load Talks onto Computer** (see Ed Mondor)
- 8:00 - 5:00 P.M. **Poster Displays** (Retreat A) *Thanks to Jim Dutcher for bringing the boards!*

Opening Session

WILDHORN-HOPETON • PRESIDENT SCOTT HORN, PRESIDING

- 8:00 - 8:30 A.M. Welcome and Announcements
- 8:30 - 9:00 A.M. 2015 GES Founders Lecture honoring **Jim Dutcher**, presented by **Will Hudson**
- 9:00 - 9:15 A.M. Recognition of 2015 GES Fellow, **Jim Hanula** presented by **Michael Ulyshen**
- 9:15 - 10:00 A.M. Industry Panel
Moderator: **Wilson Faircloth** (FMC)
- 10:00 - 10:15 A.M. **Break**
- 10:15 - NOON **Symposium - "Biting Flies in Georgia"**
 - 10:15 A.M. Introduction: **Will Hudson** (Department of Entomology, UGA, Athens, GA, Athens, GA)
 - 10:20 A.M. *Culicoides* species of the Southeast and their changing distributions. **Stacey Vigil**, Southeastern Cooperative Wildlife Disease Study, University of Georgia College of Veterinary Medicine, Athens, GA
 - 10:40 A.M. Bionomics and pathogens vectored by *Lutzomyia* spp. phlebotomine sandflies (Diptera: Psychodidae). **Daniel V. Hagan**, Mercer University School of Medicine, Macon, GA
 - 11:00 A.M. Mosquito-borne disease in Georgia: Past, Present and Future. **Mark Blackmore**, Department of Biology, Valdosta State University, Valdosta, GA.
 - 11:20 A.M. Environmental Factors that Affect the Susceptibility of Black Fly Larvae to *Bti*. **Joseph Iburg**, Elmer Gray, Ray Noblet. The University of Georgia, Athens, GA.
 - 11:40 A.M. Overview of the University of Georgia Black Fly Rearing and Bioassay Laboratory. **Elmer W. Gray**, Joseph P. Iburg and Ray Noblet, Department of Entomology, University of Georgia, Athens, GA

NOON - 1:30 P.M. **Luncheon** (Wildhorn-Hopeton)

Photo Salon (Wildhorn-Hopeton)

Moderator: **Lisa Ames** (UGA)



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

WILDHORN-HOPETON • MODERATOR: PAUL GUILLEBEAU

- 1:30 P.M. Comparing the Efficacy of Season Long Chemically-Based Management Strategies for *Drosophila suzukii* in Blueberry Crops. **Danielle O. Rosensteel**, Ashfaq A. Sial. Department of Entomology, University of Georgia, Athens, GA.
- 1:40 P.M. Integration of chemical and cultural tactics with newly released peanut cultivars for thrips and Tomato Spotted Wilt Virus management in peanut production. **Pin-Chu Lai**¹, Mark Abney¹, Albert Culbreath², and Rajagopalbabu Srinivasan¹. ¹Department of Entomology, ²Department of Plant Pathology, University of Georgia, Tifton, Georgia
- 1:50 P.M. Genetic and Genomic Analysis of *Candidatus* *Riesia pediculicola*: a New Target for Human Louse Control. **Sarah E. Braswell**^{1,2}, H. Danielle Capps², Ekaterina A. Tiugaeva², Lance A. Durden¹, Marina E. Eremeeva². ¹Department of Biology, Georgia Southern University, P.O. Box 8042 Statesboro, GA ²Jiann-Ping Hsu College of Public Health, Georgia Southern University, P.O. Box 8015 Statesboro, GA
- 2:00 P.M. Genetic analysis of *Ixodes scapularis*. **John Ludwig**¹, Cynthia Chan², Isis M. Kuczaj³, and Lorenza Beati¹. ¹Georgia Southern University, Statesboro, GA. ²University of Georgia Athens, Athens, GA. ³Michigan State University, East Lansing, MI.
- 2:10 P.M. Prevalence of acaricide resistance genes and the trench fever agent in different populations of lice. **Danielle Capps**¹, S. E. Braswell¹, L. A. Durden¹, S. Zohdy², N. K. Tokarevich³, M. E. Eremeeva¹. ¹Georgia Southern University, Statesboro, GA, ²Emory University, Atlanta, GA, ³Pasteur Institute, St. Petersburg, Russian Federation
- 2:20 P.M. Determining Pest Status of Three cornered Alfalfa Hopper *Spissistilus festinus* (Hemiptera:Membracidae) in Peanut. **Brendan Beyer**, Mark Abney, and Rajagopalbabu Srinivasan. Department of Entomology, University of Georgia, Tifton GA
- 2:30 P.M. Molecular systematics of *Amblyomma parvum* Argao, 1908. **Paula Lado**¹, Danielle Hibbs¹, Santiago Nava², and Lorenza Beati¹. ¹Institute for Coastal Plain Science and Biology Department, Georgia Southern University, Statesboro, GA, United States. ²S. Nava, Instituto Nacional de Tecnologia Agropecuaria, Rafaela, Santa Fe, Argentina.
- 2:40 P.M. *Reticulitermes virginicus* (Banks) wood preference using No-, Two-, and Four-choice bioassays and 6 measures of wood consumption. **Tae-Young Lee**, Brian T. Forschler. Department of Entomology, University of Georgia, Athens, GA
- 2:50 P.M. A comparative study of element concentrations in saproxylic insect frass and pinewood. **Yi-an Chen**, Brian Forschler. Department of Entomology, University of Georgia, Athens, GA.



3:00 - 3:30 P.M. Break

- 3:30 P.M. The Southeastern Beach Tiger Beetle as a potential ecological indicator of anthropogenic impact in Georgia coastal ecosystems. **Liz Studer**. Department of Entomology, University of Georgia, Athens, GA.
- 3:40 P.M. The systematics of the tick genus *Amblyomma* Koch (Acari: Ixodidae). **MH Seabolt**¹, L Beati¹, LA Durden¹, JSH Klompen². ¹Georgia Southern University, Institute for Coastal Plain Science, ²Ohio State University, Acarology Laboratory
- 3:50 P.M. Death and Destruction: Effects of Pollution on Carrion Beetles. **Ansley Silva**, Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA.

Ph.D. Student Paper Competition

WILDHORN-HOPETON • MODERATOR: PAUL GUILLEBEAU

- 4:00 P.M. Effect of planting date and maturity group on soybean yield response to injury by the kudzu bug, *Megacopta cribraria* (Hemiptera: Plataspidae). **Joni Blount**¹, Dave Buntin¹, Phillip Roberts², ¹UGA Entomology, UGA Griffin, 1109 Experiment St., Cowart Bldg., Griffin, GA 30223 ²UGA Entomology, UGA Tifton, 2360 Rainwater Rd., Horticulture Buidling, Tifon, GA
- 4:10 P.M. Investigating transovarial and sexual transmission of Tomato yellow leaf curl virus in the whitefly, *Bemisia tabaci*. **Wendy Marchant** and Rajagopalbabu Srinivasan. Department of Entomology, University of Georgia, Tifton, GA.
- 4:20 P.M. An Evaluation of Mosquito Surveillance Techniques in Determining Mosquito Flight Phenology in Athens, GA. **Thuy-Vi Nguyen**, Brian Forschler. Department of Entomology, University of Georgia, Athens, GA.

5:00 - 7:00 P.M. Student Awards Presentations & GES Mixer (Retreat A & B)



FRIDAY, 10 APRIL 2015

7:00 – 8:00 A.M. Registration (Conference Center Lobby)

7:00 – 8:00 A.M. Load Talks onto Computer (see Ed Mondor)

8:00 – 11:30 A.M. Poster Displays (Retreat A)

Contributed Paper Session

WILDHORN-HOPETON • MODERATOR: R: MARK BLACKMORE

- 8:00 A.M. Interactions between rhizophagous beetles and abiotic factors affecting southern pine health. **Brittany F. Barnes**¹, David R. Coyle¹, Christiane Helbig¹, Kier D. Klepzig², Frank H. Koch³, Larry A. Morris¹, John T. Nowak⁴, William J. Otrrosina⁵, William D. Smith³, and Kamal J.K. Gandhi¹ ¹University of Georgia, D.B. Warnell School of Forestry and Natural Resources, Athens, GA ²USDA Forest Service, Southern Research Station, Asheville, NC ³USDA Forest Service, Southern Research Station, Research Triangle Park, NC ⁴USDA Forest Service, Forest Health Protection, Asheville, NC ⁵USDA Forest Service, Southern Research Station, Athens, GA
- 8:10 A.M. An Emerging U.S. Industry: Edible Insects. **Marianne Shockley**, University of Georgia, Department of Entomology, Athens, GA
- 8:20 A.M. The effects of media density and nutrient concentration on liquid fermentation of entomopathogenic nematodes. **Luis G. Leite**¹, David I. Shapiro-Ilan², Selcuk Hazir³, Mark A. Jackson⁴. ¹Instituto Biologico, APTA, CP 70, Campinas, SP 13001-970, Brazil. ²USDA-ARS, SEFTNRL, Byron, GA. ³Adnan Menderes University, Department of Biology, Aydin-Turkey. ⁴USDA-ARS, NCAUR, Peoria, IL
- 8:30 A.M. Multifaceted tri-trophic effects of host plants on entomopathogenic nematodes. **Selcuk Hazir**¹, David Shapiro-Ilan², Canan Hazir³, Luis Garrigos Leite⁴, and Dawn Olson⁵. ¹Adnan Menderes University, Faculty of Arts and Sciences, Biology department, Aydin-TURKEY. ²USDA-ARS, SEFTNRL, Byron, GA. ³Aydin Vocational School of Health Services, Adnan Menderes University, Aydin, Turkey ⁴Instituto Biologico, CP 70, Campinas, SP, Brazil ⁵USDA-ARS, Crop Genetics and Breeding Research Unit, Tifton, GA
- 8:40 A.M. An insect pupal cell with antimicrobial properties that suppress an entomopathogenic fungus. **David I. Shapiro-Ilan**¹ and Russell F. Mizell III² ¹USDA-ARS, SEFTNRL, Byron, GA. ²University of Florida/IFAS, Quincy, FL
- 8:50 A.M. Cotton insect advisor: an expert system for extension prescribed insecticide selection. **Michael Toews**^{1,2}, Phillip Roberts¹ and Chuck Barger^{2,3}. ¹Department of Entomology, University of Georgia, Tifton Campus; ²Center for Invasive Species and Ecosystem Health, University of Georgia, Tifton Campus; and ³Warnell College of Forestry and Natural Resources, University of Georgia, Tifton Campus
- 9:00 A.M. Can crape myrtle banker plants be used to manage aphids attacking pecan? **Ted Cottrell**, USDA-ARS, SEFTNRL, Byron, GA
- 9:10 A.M. 2014 Cowpea Curculio Sampling and Control Studies. **David Riley**, GES Member, and Jenna Kicklighter, MPPPM student, Department of Entomology, University of Georgia, Tifton, GA



FRIDAY, 10 APRIL 2015

9:20 A.M. Sugarcane aphid: a new invasive pest of sorghum in Georgia. **G. D. Buntin**¹ and P. M. Roberts² ¹Department of Entomology, Univ. of Georgia - Griffin Campus, Griffin, GA ²Department of Entomology, Univ. of Georgia - Tifton Campus, Tifton, GA

9:30 – 10:00 A.M. Break / Authors at Posters

- 10:00 A.M. Identification of a Major Recessive Gene that Confers Resistance to the White Sugarcane Aphid (Homoptera: Aphididae) in Sorghum. **Karen R Harris-Shultz**, Caitlin Cato, Hongliang Wang, William Anderson, Joseph Knoll, Xinzhi Ni. USDA-ARS, Crop Genetics Breeding and Research Unit, Tifton, GA.
- 10:10 A.M. Human Arthropod Infestations and How Entomologists Deal With Them. **Nancy C. Hinkle**. Department of Entomology, University of Georgia, Athens, GA
- 10:20 A.M. Food webs in cover crops and managed border habitat: what do we know? **Jason M. Schmidt**, Department of Entomology, University of Georgia Tifton Campus, Tifton, GA
- 10:30 A.M. Soil Arthropods Associated with Continuous Coal Fires in Centralia, Pennsylvania. **B.L. Simmons**¹, Wedincamp, J¹, Nolter, M.A.², and G.B. Stracher¹ ¹Division of Science and Mathematics, East Georgia State College, Swainsboro, GA, ²Service Access Management Inc., ³South Second Street, Pottsville, PA.
- 10:40 A.M. Can We Predict Brown Stink Bug (Hemiptera: Pentatomidae) Abundance in Corn Using Previous Pheromone Trap Capture and Early Season Weather Data? **Xinzhi Ni**¹, Ted E. Cottrell², G. David Buntin³, and Michael D. Toews⁴. ¹USDA-ARS, Crop Genetics and Breeding Research Unit, Tifton, GA, ²USDA-ARS, Southeast Fruit and Nut Research Laboratory, Byron, GA, ³Department of Entomology, University of Georgia, Griffin, GA, ⁴Department of Entomology, University of Georgia, Tifton, GA
- 10:50 A.M. Hints of an atypical ecology in *Vanduzeeia segmentata* (Fowler) (Hemiptera: Membracidae), a fairly recent arrival to the southeastern United States. **Alan W. Harvey**, (Georgia Southern University, Statesboro, GA) & A. G. Wheeler, Jr. (Clemson University, Clemson, SC)
- 11:00 A.M. Influence of preemergence herbicide injury on thrips management in cotton. **Phillip Roberts**, Mike Toews, and Stanley Culpepper.
- 11:10 A.M. Are foliar insecticide applications needed in stacked-gene Bt sweet corn varieties? **Stormy Sparks**, Department of Entomology, University of Georgia, Tifton, GA
- 11:20 A.M. Insecticide resistance risk assessment in spotted wing drosophila: a transcriptomic perspective. **Ash Sial Ahmad**, Department of Entomology, University of Georgia, Athens, GA

11:30 – 12:30 P.M. Business Meeting (Wildhorn-Hopeton)



Student Poster Competition

(RETREAT A)

- SP-1 Exploring Floral Preferences of Insect Flower Visitors. **Bethany Harris** and S. Kristine Braman, Department of Entomology, University of Georgia, Griffin, GA.
- SP-2 Arthropod Diversity of Thompson Mills Forest. **Melissa Parks** and Holly Munro, Biology Department, University of North Georgia, Oakwood, GA
- SP-3 The minute-clubbed beetles of Georgia (Coleoptera:Monotomidae). **Thomas McElrath** & Joseph V. McHugh, Department of Entomology, University of Georgia, Athens, GA
- SP-4 Exotic ants at the port of Savanna. **Benjamin Gochnour** and Dan Suiter. Department of Entomology, University of Georgia, Griffin, GA.
- SP-5 The Full Impact: A morphometric study with conservation implications of the Southeastern Beach Tiger Beetle. **Liz Studer**. Department of Entomology, University of Georgia, Athens, GA.
- SP-6 Carbon dioxide sensing in the pitcher-plant mosquito, *Wyeomyia smithii*. **Daniel Allen** and William S. Irby, PhD. Department of Biology, Georgia Southern University, Statesboro, GA.
- SP-7 Influence of planting date and floral resources on the squash bug *Anasa tristis* (Hemiptera: Coreidae) (DeGeer). **Conor Fair** and Kris Braman, Department of Entomology, University of Georgia, Griffin, GA.
- SP-8 Righting Behavior in *Gromphadorhina portentosa*. **Kendra Hogan**, Paul GUILLEBEAU, and Matt Burrows, University of Georgia, Athens, GA
- SP-9 Clinging strength of *Gromphadorhina portentosa*. **Allison Johnson**, Paul GUILLEBEAU, Richard Evans, and Akshun Yadav, Department of Entomology, University of Georgia, Athens, GA
- SP-10 Spatial and Temporal Preferences for Food and Shelter in *Gromphadorhina portentosa* and *Blaberus craniifer*. **Allison O'Neal**, Paul GUILLEBEAU, and Alexander Hedaya, University of Georgia, Athens, GA

Regular Poster Displays

(RETREAT A)

- RP-1 *Prionus* Root Borer Pheromone Trials in Commercial Pecan Orchards. **Jim Dutcher**, Department of Entomology, University of Georgia, Tifton, GA
- RP-2 Removing Chinese privet benefits forest bees, especially near the ground. **Michael D. Ulyshen**, James L. Hanula and Scott Horn. USDA Forest Service, Southern Research Station, Athens,
- RP-3 Habitat associations of *Lucanus elaphus*, a saproxylic beetle of conservation concern. **Michael D. Ulyshen**¹, John O. Stireman III² and Ryan C. Garrick³. ¹USDA Forest Service, Southern Research Station, Athens GA; ²Wright State University, Dayton OH; ³University of Mississippi, Oxford MS
- RP-4 Determination of Intron/Exon Structure of Ferritin gene H-chain from hard tick *Dermacentor variabilis*. **Quentin Q. Fang**, Weibo Fu, and Dana Sylvestre, Department of Biology, Georgia Southern University, Statesboro, GA
- RP-5 Catalpol and Cultures: Gut Microbes of the Catalpa Sphinx and Effects of Catalpol Sequestration on Predator Gut Microbes. **Zach Faulkner** and Evan Lampert. Biology Department, University of North Georgia, Oakwood, GA.



President Scott Horn's Letter, continued from page 2

his research on pollinators. Congrats to both 2015 honorees who are both well-deserving of these awards.

Our industry panel will update us on exciting new developments and products relevant to growers and researchers in the state. This year's symposium includes five speakers waxing eloquent on the topic of biting Diptera (ouch!), a subject no doubt on the minds of all visitors to the Georgia coast. Again this year Lisa will present the Photo Salon during lunch, so be sure and vote for your favorite so that we can crown a People's Choice Award winner. Thursday afternoon we will hear presentations from future leaders in Entomology when we have both the Master's and Ph.D. student paper competitions. Following on Friday will be contributed papers from regular members who will be competing for the highly prized O.I. Snapp Award. This year we will have 15 posters on display and they will be in the proximity of the GES Mixer on Thursday—Please be sure to take some time to view these during the Mixer, as well as the rotating slide show of past meetings put together by Nancy.

I want to thank all the students and regular members for their hard work and submissions to both the poster displays and paper sessions. Likewise, I would like to express my deep appreciation to all those who volunteer their time, effort, and support (Committee Members, Moderators, Speakers, and Industry Sponsors) that together will make this 79th Annual Meeting of the Georgia Entomological Society a success.

Fellow James Hanula, continued from page 7

with the 2007 Celebrating Wildflowers Award. Jim is also active in the Southern Forest Insect Work Conference and was awarded the A.D. Hopkins Award for outstanding forest entomologist in 2009. He has served as project leader for the Insects and Diseases of Southern Forests project within the Forest Service, was a member of the national invasive species taskforce, and currently serves on the team developing a pollinator conservation strategy for the Forest Service.





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Courtney Holt	



GES SCHOLARSHIP

Gerald Harrison (Chair)	Alan Harvey
David G. Riley	

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

Michael Ulyshen (Chair)	Keith Griffith
Mark Blackmore	

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Joe Eger	

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PHOTO SALON

Lisa Ames (Chair)	David Buntin
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SPORTING EVENTS (GOLF AND RUN/WALK)

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



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1937	C. H. Alden	1978	R. H. Perstage
1938	C. H. Alden	1979	R. B. Henderson
1939	Theodore L. Bissell	1980	James O. Howell
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1942	M. M. Murphy, Jr.	1983	R. F. Nash
1944	P. W. Fatrtig	1984	W. Louis Tedders, Jr
1946	Oliver I. Snapp	1985	Herbert Womack
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1951	G. G. Rohwer	1989	Louise G. Henry
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1953	William F. Turner	1991	Jerry A. Payne
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1963	E. W. Beck	2001	Lance G. Peterson
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1966	H. L. Pollard	2004	G. David Buntin
1967	H. D. Purswell	2005	Wayne A. Gardner
1968	J. W. Kilpatrick	2006	Robert M. McPherson
1969	Preston E. Hunter	2007	John N. All
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1971	R. Davis	2009	John Ruberson
1972	L. M. Redlinger	2010	James Hadden
1973	J. B. O’Neil	2011	Ted Cottrell
1974	Rudolph T. Franklin	2012	David Riley
1975	Horace O. Yates, III	2013	Alan Harvey
1976	Jerry E. Payne, Sr.	2014	Gerald Harrison
1977	V. Rodney Coleman		



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
9-11 April 2014	James H. Rainwater Conference Center, Valdosta

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



SPEAKER SCHEDULE

AHMAD, ASH	FRIDAY, APRIL 10	11:20 A.M.
BARNES, BRITTANY	FRIDAY, APRIL 10	8:00 A.M.
BEYER, BRENDAN	THURSDAY, APRIL 9	2:20 P.M.
BLACKMORE, MARK	THURSDAY, APRIL 9	11:00 A.M.
BLOUNT, JONI	THURSDAY, APRIL 9	4:00 P.M.
BRASWELL, SARAH E.	THURSDAY, APRIL 9	1:50 P.M.
BUNTIN, G. DAVID	FRIDAY, APRIL 10	9:20 A.M.
CAPPS, DANIELLE	THURSDAY, APRIL 9	2:10 P.M.
CHEN, YI-AN	THURSDAY, APRIL 9	2:50 P.M.
COTTRELL, TED	FRIDAY, APRIL 10	9:00 A.M.
GRAY, ELMER	THURSDAY, APRIL 9	11:40 A.M.
HAGAN, DANIEL	THURSDAY, APRIL 9	10:40 A.M.
HARRIS-SHULTZ, KAREN	FRIDAY, APRIL 10	10:00 A.M.
HARVEY, ALAN W.	FRIDAY, APRIL 10	10:50 A.M.
HAZIR, SELCUK	FRIDAY, APRIL 10	8:30 A.M.
HINKLE, NANCY	FRIDAY, APRIL 10	10:10 A.M.
IBURG, JOSEPH	THURSDAY, APRIL 9	11:20 A.M.
LADO, PAULA	THURSDAY, APRIL 9	2:30 P.M.
LAI, PIN-CHU	THURSDAY, APRIL 9	1:40 P.M.
LEE, TAE-YOUNG	THURSDAY, APRIL 9	2:40 P.M.
LEITE, LUIS	FRIDAY, APRIL 10	8:20 A.M.
LUDWIG, JOHN	THURSDAY, APRIL 9	2:00 P.M.
MARCHANT, WENDY	THURSDAY, APRIL 9	4:10 P.M.
NGUYEN, THUY-VI	THURSDAY, APRIL 9	4:20 P.M.
NI, XINSHI	FRIDAY, APRIL 10	10:40 A.M.
RILEY, DAVID	FRIDAY, APRIL 10	9:10 A.M.
ROBERTS, PHILLIP	FRIDAY, APRIL 10	11:00 A.M.
ROSENSTEEL, DANIELLE O.	THURSDAY, APRIL 9	1:30 P.M.
SCHMIDT, JASON	FRIDAY, APRIL 10	10:20 A.M.
SEABOLT, M.H.	THURSDAY, APRIL 9	3:40 P.M.
SHAPIRO-ILAN, DAVID	FRIDAY, APRIL 10	8:40 A.M.
SHOCKLEY, MARIANNE	FRIDAY, APRIL 10	8:10 A.M.
SILVA, ANSLEY	THURSDAY, APRIL 9	3:50 P.M.
SIMMONS, B.L.	FRIDAY, APRIL 10	10:30 A.M.
SPARKS, STORMY	FRIDAY, APRIL 10	11:10 A.M.
STUDER, LIZ	THURSDAY, APRIL 9	3:30 P.M.
TOEWS, MICHAEL	FRIDAY, APRIL 10	8:50 A.M.
VIGIL, STACEY	THURSDAY, APRIL 9	10:20 A.M.

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support for our meeting:

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