

Georgia Entomological Society

Annual Meeting



Nº.

84

April 13-15, 2022

Jekyll Island, GA

Villas by the Sea
Resort & Conference Center



PRESIDENT • 2019-2022

Nancy Hinkle

How appropriate that, after two years of being isolated and sequestered away from people, we gather at lovely Jekyll Island for the 2022 meeting of the Georgia Entomological Society!

Most of us have been affected by the coronavirus pandemic, losing friends and loved ones, and certainly we have all suffered from isolation and having our lives constrained and restricted by efforts to avoid infection. Even as we return to some

semblance of normalcy, we realize that the virus is still infecting, sickening, and killing people around the world.

But we get to enjoy one of the most charming spots in Georgia, among the Golden Isles, a barrier island with a storied history and an illustrious heritage, including notable structures from the 1700s. If you're interested, the famous families (Rockefeller, Vanderbilt, Pulitzer, etc.) who wintered on Jekyll Island and their adventures are explored in several books including *Jekyll Island Club: Southern Haven for America's Millionaires*.

We are tremendously grateful to all the GES committee chairs who have worked to put together the 2022 meeting, ensuring all the components are in place for a productive and enjoyable gathering. We appreciate members' willingness to serve on committees, as judges, and in other capacities. See the listing of committees in this program and take time to thank those who have served on your behalf. This Society is definitely volunteer-driven.

Nancy Hinkle grew up in rural central Alabama, near Auburn, and received both her bachelor's and master's degrees (in medical-veterinary entomology) from Auburn University. After working at UGA's Coastal Plain Experiment Station in Tifton for four years, she pursued a PhD at the University of Florida. Upon completion, she accepted a position at the University of California, Riverside, as their Extension Veterinary Entomologist and enjoyed nine years in southern California. However, when a comparable position opened at UGA, she couldn't resist returning to the Southeast, and she was hired by UGA in 2001. Her research focuses on livestock and poultry pests, but extends to wildlife, pets, horses, etc. While her graduate students have worked mainly on poultry pests (flies and darkling beetles), currently her lab is concentrating on haematophagous arthropods such as ticks and horn flies, exploring options in host animal resistance.

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SCHEDULE OVERVIEW

Wednesday, April 13, 2022

- NOON – 5:00 PM Fishing Tournament (*Meet at Pier – Will Hudson*)
 4:00 – 6:00 PM Registration (*Villas Lobby*)
 4:00 – 7:00 PM Poster Set Up (*Retreat A*)
 5:00 PM Entomology Fun Run (*Meet in Villas Lobby – Jason Schmidt*)
 6:30 PM Executive Committee Meeting (*Meet in Villas Lobby*)

Thursday, April 14, 2022

- Breakfast (*on your own*)
 7:00 – 8:30 AM Registration (*Conference Center Lobby*)
 7:00 – 8:00 AM Poster Set Up (*Retreat A*)
 7:00 – 7:55 AM Load Talks onto Computer (*Wildhorn-Hopeton*)
 8:00 AM – 5:00 PM Poster Displays (*Retreat A*)
 8:00 – 8:15 AM Welcome & Announcements (*Wildhorn-Hopeton*)
 8:15 – 8:45 AM 2022 GES Founders Lecture
 8:45 – 8:55 AM GES Founders Honoree Award Presentation
 8:55 – 9:10 AM Journal of Entomological Science Update
 9:10 – 9:40 AM Industry Panel
9:40 – 10:00 AM Break
 10:00 AM – NOON Keynote Speaker & Symposium
NOON – 1:30 PM Luncheon & Photo Salon (*Wildhorn-Hopeton*)
 1:30 – 1:50 PM B.S. Student Paper Competition
 1:50 – 3:00 PM M.S. Student Paper Competition
3:00 – 3:20 PM Break (*Authors at Posters*)
 3:20 – 4:50 PM Ph.D. Student Paper Competition
6:00 – 8:00 PM GES Mixer & Student Awards Presentations (*Retreat A & B*)

Friday, April 15, 2022

- Breakfast (*on your own*)
 7:00 – 8:00 AM Registration (*Conference Center Lobby*)
 7:00 – 7:45 AM Load Talks onto Computer (*Wildhorn-Hopeton*)
 8:00 – 11:20 AM Poster Displays (*Retreat A*)
 8:00 – 10:10 AM Regular Member Paper Session (*Wildhorn-Hopeton*)
10:10 – 10:30 AM Break
 10:30 – 11:20 AM Regular Member Paper Session (*continued*)
 11:20 – 12:00 PM Business Meeting



FOUNDERS HONOREE • 2022

Beverly Sparks

Beverly Sparks retired from the University of Georgia after a distinguished career as an Extension Entomologist and Administrator. She served as Associate Dean for Cooperative Extension in the University of Georgia College of Agricultural and Environmental Sciences from 2007 until her retirement in 2014. She received her A.S. in Agriculture (1976) from Abraham Baldwin College, B.S. in

Horticulture (1978), and M.S. in Entomology from UGA, and a Ph.D. in Entomology (1983) from Louisiana State University. Dr. Sparks is widely known for her work with the turfgrass and ornamentals industry and her fire ant management programs. Her strong leadership in extension earned her many awards and distinguished her as one of GeorgiaTrend's Power Women in Georgia (2010).

Beverly grew up in Tifton, Georgia, where her father worked as a USDA entomologist. She earned her M.S. degree at UGA, working with Ham Tippins on the Griffin Campus and Preston Hunter on the Athens Campus. After earning her Ph.D. with Abe Oliver at LSU, she began her career as an urban entomologist for Texas A&M University in 1983, providing educational support for county agents and clientele in the Dallas/Ft. Worth metroplex. Her program included work with mass media and applied research related to urban pest management. Dr. Sparks returned to UGA in 1989, providing educational programming to support extension agents in Georgia's 159 counties regarding insect pest management in turf, ornamentals, landscape, household and structural pests. She served as Extension Coordinator for all extension entomology programs in Georgia. Her career in administration began as District Director for the North and Northeast Districts. As Assistant Dean and later as Associate Dean, she supervised county operations and worked with County Extension Coordinators, County Boards and Commissioners, and the CAES Dean and Director and Associate Deans.

Throughout her career Dr. Sparks has participated in and provided leadership for professional societies, including the Entomological Society of America (ESA) and the Georgia Entomological Society. She has served on ESA committees, co-chaired Local Arrangements for the 1999 national ESA meeting in Atlanta, was President of the ESA Southeastern Branch (2003), and served as Southeastern representative to the ESA Board of Certified Entomologists. Georgia 4-H has been a priority for Dr. Sparks and she still actively serves on their Board. Dr. Sparks was the 2016 recipient of the CAES Alumni Association Award of Excellence. She has earned many awards throughout her career, including the UGA CAES Service Medallion, the Walter B. Hill Fellow and Public Service Awards, and the 2016 Georgia Association of Extension 4-H Agents Friend of 4-H Award.

FOUNDERS LECTURER • 2022

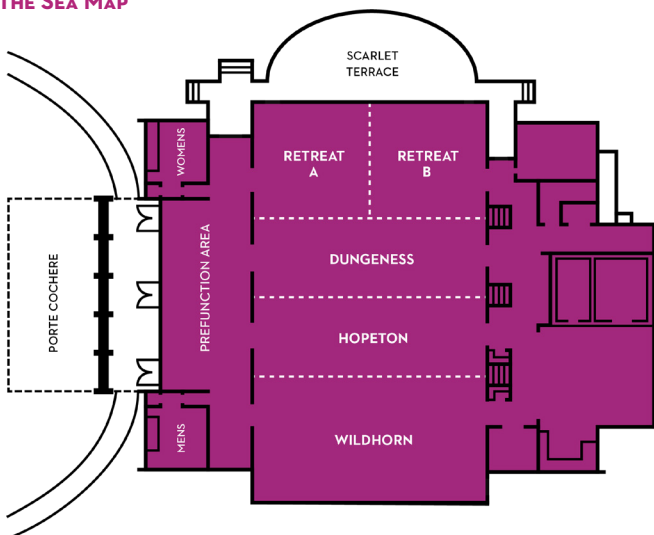
Kris Braman

Dr. Braman began work at UGA in 1989 after earning a B.S. in Forest Biology at SUNY ESF and a Ph.D. in Entomology at University of Kentucky (1987). Her research focused on ecology and management of turf and ornamental insect pests. Current research emphasizes two areas: identifying and increasing the use of pest-resistant and adapted turf and ornamentals, and integrating natural enemies and alternative control technologies into IPM in urban plant systems. Recent work has addressed management of invasive and emerging plant pests and conservation of pollinators and other beneficial arthropods. Dr. Braman has produced, with her students, over 200 publications including 155-refereed journal articles and 16 book chapters. As Director of the Center for Urban Agriculture from 2011-2016, she provided leadership in delivery of science-based information to stakeholders.



She has taught courses in Turfgrass Pest Management; General Entomology; Biological Control; Plants, Pollinators and People; and Bees, Beekeeping and Bee conservation. She received the Distinguished Achievement Award in Horticultural Entomology (SEB/ESA), the GGIA Environmental Friend of the Year Award, and was recognized as Distinguished Alum of the University of Kentucky's Entomology Department. She is a 2019 UGA Women's Leadership Fellow. Dr. Braman belongs to several professional societies and was GES President in 2008 and ESA-SEB President in 2010. Dr. Braman has served as Entomology Department Head since June 2016.

VILLAS BY THE SEA MAP



FOUNDERS LECTURE SERIES

The Society has recognized significant and selfless contributions to science and the GES by means of the Founders Lecture Series. The Founders Lecture honors the individual to whom the lecture is dedicated, and recognizes a scholar/researcher who has contributed significantly to the advancement of our science and/or whose research is at the cutting edge of his/her discipline.

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
2016	Raymond Noblet	Wayne A. Gardner
2017	Jim Hanula	Scott Horn
2018	Herbert Womack	Phillip Roberts
2019	Dan Hagan	Lance A. Durden
2022	Beverly Sparks	Kris Braman

FELLOWS OF THE GEORGIA ENTOMOLOGICAL SOCIETY

1991	James H. Oliver, Jr	2007	James Dutcher
1992	Preston E. Hunter	2007	Keith Griffith
1993	Alton N. Sparks	2008	John All
1994	J. Bruce Wallace	2008	T. Don Canerday
1995	Harry O. Yates, III	2009	William Tietjen
1998	Sturgis McKeever	2011	Beverly Sparks
2000	Rudolph T. Franklin	2011	Robert McPherson
2001	W. Joe Lewis	2012	G. David Buntin
2002	Richard B. Chalfant	2013	Kristine Braman
2003	Ronald D. Oetting	2013	Tracie Jenkins
2004	Frank E. French	2014	Dan Horton
2005	C. Wayne Berisford	2015	Jim Hanula
2005	Daniel V. Hagan	2018	William R. Lambert
2006	Wayne Gardner	2018	Raymond Noblet
2006	Lance Peterson		

President Welcome Letter, *continued from page 2*

As you can imagine, there have been a couple of false starts, as the Executive Committee considered the advisability of holding meetings in 2020 and 2021. Through it all, Dr. David Shapiro-Ilan, Program Chair, has consistently planned and arranged so that we can enjoy this meeting. Dr. Ted Cottrell, Local Arrangements Chair, has worked with Villas by the Sea to ensure accommodations suitable for this gathering and handled all aspects of local arrangements.

This year's Founder Honoree is my former boss and the Lecturer is my current boss, so having them play prominent roles this year is particularly significant to me. (And, yes, Dr. Beverly Sparks is the sister of our Auditing Committee Chair, Dr. Stormy Sparks.)

Enjoy the posters, the oral presentations, the breaks and social gatherings, and the awards luncheon. Students, use this opportunity to meet people, realizing that potential future employers may be in attendance. Please wear your name tag, since I have forgotten names of people I haven't seen in three years!

It has been an honor to serve as GES president from 2019 to 2022, and I eagerly look forward to passing the gavel to Dr. Shapiro-Ilan!

THURSDAY, APRIL 14

7:00 – 8:30 AM Registration (Conference Center Lobby)

7:00 – 8:00 AM Poster Set Up (Retreat A)

7:00 – 7:55 AM Load Talks onto Computer (Wildhorn-Hopeton)

8:00 AM – 5:00 PM Poster Displays (Retreat A)

Opening Session

WILDHORN-HOPETON • PRESIDENT NANCY HINKLE, PRESIDING

8:00 – 8:15 AM Welcome & Announcements

8:15 – 8:45 AM 2022 GES Founders Lecture Honoring **Beverly Sparks**,
Presented by **Kris Braman**

8:45 – 8:55 AM GES Founders Honoree Award Presentation

8:55 – 9:10 AM Journal of Entomological Science Update,
Presented by **Wayne Gardner**

9:10 – 9:40 AM Industry Panel,
Moderated by **Scott Croxton**

9:40 – 10:00 AM **Break**

10:00 AM – NOON **Keynote Speaker & Symposium**,
Moderated by **David Shapiro-Ilan**

10:00 – 10:24 AM **Keynote** – Managing whiteflies in the southeastern U.S. **Alvin M. Simmons**¹ and Allen J. Moore². ¹USDA-ARS US Vegetable Laboratory, Charleston, SC, ²Department of Entomology, University of Georgia, Athens, GA.

Symposium – Advances in Biological Control

10:24 AM Microorganisms as biocontrol agents in crop protection. **Shaohui Wu**¹, Michael Toews¹, David Shapiro-Ilan². ¹Department of Entomology, University of Georgia, Tifton, GA, ²USDA-ARS Southeastern Fruit and Tree Nut Research, Byron, GA.

10:48 AM Fungal interactions with fungi: From pathogens to symbionts. **Nemat O. Keyhani**. Department of Microbiology and Cell Science, University of Florida, Gainesville, FL.

11:12 AM Elucidating biocontrol food webs in GA agricultural systems through diagnostic PCR and sequencing. **Jason M. Schmidt**¹, Tara Gariepy², Stephane Boyer³, Arash Kheirodin¹, Melissa Thompson¹, Marina Querejeta Coma³. ¹Department of Entomology, University of Georgia, Tifton, GA, ²Molecular Diagnostics and Agriculture and Agri-Food Canada, Ontario, Canada, ³l'Institut de Recherche sur la Biologie de l'Insecte, IRBI, Tours, France.

11:36 AM Entomopathogenic nematode movement: Leveraging basic and applied knowledge for improved biocontrol on Earth and elsewhere. **David Shapiro-Ilan**. USDA-ARS Southeastern Fruit and Tree Nut Research, Byron, GA.

NOON – 1:30 PM **Luncheon** (Wildhorn-Hopeton)

Photo Salon, Presented by **Lisa Ames** (Wildhorn-Hopeton)

THURSDAY, APRIL 14 - CONTINUED

B.S. Student Paper Competition

WILDHORN-HOPETON • MODERATOR: KYLE SLUSHER

- 1:30 PM Identification and characterization of inhibition between microbial insect mutualists. **Zee Kwong**, Jason Chen, Nicole Vega, Nicole Gerardo. Department of Biology, Emory University, Atlanta, GA.
- 1:40 PM The role of age and attraction in maintaining an environmentally acquired mutualism. **Scott Villa**, Jason Chen, Zee Kwong, Alice Acosta, Nicole Vega, Nicole Gerardo. Department of Biology, Emory University, Atlanta, GA.

M.S. Student Paper Competition

WILDHORN-HOPETON • MODERATOR: KYLE SLUSHER

- 1:50 PM Source of *Systema frontalis* adults attacking the panicle hydrangea in the ornamental nursery. **Rehan Arshad** and Shimat V. Joseph. Department of Entomology, University of Georgia, Griffin, GA.
- 2:00 PM Effects of percentage grass cover on occurrence and abundance of beneficial arthropods in sod farms. **Mahesh Ghimire** and Shimat V. Joseph. Department of Entomology, University of Georgia, Griffin, GA.
- 2:10 PM Exploring risk factors for insect borer attack in Georgia's urban landscapes. **Zia Williamson**¹, Brett Blaauw², Shimat V. Joseph¹.
¹Department of Entomology, University of Georgia, Griffin, GA,
²Department of Entomology, University of Georgia, Athens, GA.
- 2:20 PM Connecting above- and belowground effects of climate change on bumble bees (*Bombus* spp.). **Francis Mullan** and Clint Penick. Department of Ecology, Evolution and Organismal Biology, Kennesaw State University, Kennesaw, GA.
- 2:30 PM Wild bee functional guild diversity in blueberry systems. **Sarah M. Rezende**¹, Zack Williams², Bodie Pennisi³, Jason M. Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA, ²Bacon County Cooperative Extension, University of Georgia, Alma, GA, ³Department of Horticulture, University of Georgia, Griffin, GA.
- 2:40 PM The hunter fly (*Coenosia attenuata*), evidence of the first wild population in North America. **Amos Kaldor**¹, Joseph V. McHugh^{1,2}, Jason M. Schmidt³, Brett Blaauw¹. ¹Department of Entomology, University of Georgia, Athens, GA, ²Georgia Museum of Natural History, University of Georgia, Athens, GA, ³Department of Entomology, University of Georgia, Tifton, GA.
- 2:50 PM Comparing arthropod community composition and distribution in large-scale organic and conventional Vidalia onion farms. **Kylie Lennon**¹, Melissa Thompson¹, Chris Tyson², Bhabesh Dutta³, Jason M. Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA, ²University of Georgia, Lyons, GA, ³Department of Plant Pathology, University of Georgia, Tifton, GA.

3:00 - 3:20 PM **Break (Authors at Posters)**

THURSDAY, APRIL 14 - CONTINUED

Ph.D. Student Paper Competition

WILDHORN-HOPETON • MODERATOR: COLIN WONG

- 3:20 PM Bees collect pollen from centipedegrass inflorescence. **Oluwatomi Ibiyemi**¹, David Jespersen², Karen Harris-Shultz³, Shimat V. Joseph¹.
¹Department of Entomology, University of Georgia, Griffin, GA,
²Department of Crop and Soil Science, University of Georgia, Griffin, GA,
³USDA-ARS Crop Genetics and Breeding Research, Tifton, GA.
- 3:30 PM Competitive exclusion of a plant pathogen by symbiotic bacteria in the squash bug, *Anasa tristis* (Hemiptera: Coreidae). **Sandra Y. Mendiola**, David J. Civitello, Nicole M. Gerardo. Department of Biology, Emory University, Atlanta, GA.
- 3:40 PM Transmission bottlenecks maintain diversity in the squash bug (Hemiptera: Coreidae) microbial symbiosis. **Jason Chen**, Zee Kwong, Nicole Vega, Nicole Gerardo. Department of Biology, Emory University, Atlanta, GA .
- 3:50 PM Exploration and study of the native parasitoids for biological control of spotted-wing drosophila. **Subin Neupane** and Ashfaq Sial. Department of Entomology, University of Georgia, Athens, GA.
- 4:00 PM Host plant effect on insecticide dose-response of *Bemisia tabaci* (Hemiptera: Aleyrodidae) to cyantraniliprole. **Jermaine D. Perier** and David G. Riley. Department of Entomology, University of Georgia, Tifton, GA.
- 4:10 PM Cotton leafroll dwarf virus: Transmission to and from alternate hosts mediated by the cotton/melon aphid. **Sudeep Pandey**¹, Sudeep Bag², Philip Roberts³, Alana Jacobson⁴, Rajgopalbabu Srinivasan¹. ¹Department of Entomology, University of Georgia, Griffin, GA, ²Department of Plant Pathology, University of Georgia, Tifton, GA, ³Department of Entomology, University of Georgia, Tifton, GA, ⁴Department of Entomology & Plant Pathology, Auburn University, AL.
- 4:20 PM Assessment of abiotic and biotic environmental factors on peanut burrower bug (Hemiptera: Cydnidae) injury to peanuts in the southeastern US. **Benjamin Aigner**, Mark Abney, Jason M. Schmidt. Department of Entomology, University of Georgia, Tifton, GA.
- 4:30 PM Seasonal abundance of blueberry flower thrips (Thysanoptera: Thripidae) in Georgia. **Rosan Adhikari** and Ashfaq Sial. Department of Entomology, University of Georgia, Athens, GA.
- 4:40 PM Effects of canopy architecture and pesticide applications on the population dynamics of aphids and their specialist parasitoid in pecans. **Pedro Toledo**¹, Kate Phillips¹, Clive Bock², Angelita L. Acebes-Doria^{1,3}, Jason M. Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA, ²USDA-ARS Southeastern Fruit and Tree Nut Research, Byron, GA, ³USDA-ARS Pacific Basin Agricultural Research, Hilo, HI.

6:00 - 8:00 PM **GES Mixer & Student Awards Presentation** (*Retreat A & B*)

FRIDAY, APRIL 15

7:00 – 8:00 AM Registration (Conference Center Lobby)

7:00 – 7:45 AM Load Talks onto Computer (Wildhorn-Hopeton)

8:00 AM – 11:20 AM Poster Displays (Retreat A)

Regular Member Session

WILDHORN-HOPETON • MODERATOR: JASON SCHMIDT

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- 8:00 AM Comparison of methods to measure *Helicoverpa zea* adult emergence from Vip3A corn seed blend and block refugia. **G. David Buntin**¹, Suhas Vyavhare², Pat Porter², Joni Blount³, Matt Carroll³. ¹Department of Entomology, University of Georgia, Griffin, GA, ²Texas A&M AgriLife Extension, Lubbock, TX, ³Bayer CropScience, St. Louis, MO.
- 8:10 AM Three years of the great Georgia pollinator census. **Becky Griffin**. University of Georgia Extension, Blairsville, GA.
- 8:20 AM Direct and indirect effects of crop diversity and within fields species interactions mediate *Bemisia tabaci* populations in Georgia cotton agroecosystems. **Arash Kheirodin** and Jason M. Schmidt. Department of Entomology, University of Georgia, Tifton, GA.
- 8:30 AM Sexual dimorphism in orthopteran eyes: Seekers vs. singers. **Alan Harvey** and Juan Jeronimo-Rangel. Department of Biology, Georgia Southern University, Statesboro, GA.
- 8:40 AM *Aphis gossypii* populations and the incidence of CLRDV in Georgia cotton fields. **Sarah Hobby**¹, Alana Jacobson², Sudeep Bag³, Phillip Roberts⁴. ¹Department of Entomology, University of Georgia, Tifton, GA, ²Department of Entomology & Plant Pathology, Auburn University, Auburn, AL, ³Department of Plant Pathology, University of Georgia, Tifton, GA, ⁴Department of Entomology, University of Georgia, Tifton, GA.
- 8:50 AM Sub-lethal effects of bifenthrin on *Megacephala carolina carolina* L. (Coleoptera: Carabidae) in turfgrass. **Shimat V. Joseph**. Department of Entomology, University of Georgia, Griffin, GA.
- 9:00 AM Evaluation of ThryvOn technology for thrips control in seedling cotton. **Phillip Roberts**, Sarah Hobby, Mike Toews. Department of Entomology, University of Georgia, Tifton GA.
- 9:10 AM Insecticidal peptides: Primer on a new technology yielding novel tools for pest management. **Daniel Peck**. Field Development, Vestaron Corporation, Durham, NC.
- 9:20 AM The 2021 emergence of Brood X cicadas in Georgia. **Evan Lampert**. Department of Biology, University of North Georgia, Oakwood, GA.
- 9:30 AM Mortality in *Nasonia* jewel wasp hybrids. **Joshua D. Gibson** and Bonnie A. Cobb. Department of Biology, Georgia Southern University, Statesboro, GA.
- 9:40 AM Aphids and associated parasitoids exhibit vertical stratification in pecans. **Eddie K. Slusher**¹, Angelita L. Acebes-Doria², Ted Cottrell¹, Jason M. Schmidt³. ¹USDA-ARS Southeastern Fruit and Tree Nut Research, Byron, GA, ²USDA-ARS Pacific Basin Agricultural Research, Hilo, HI, ³Department of Entomology, University of Georgia, Tifton, GA.

FRIDAY, APRIL 15 - CONTINUED

9:50 AM Entomopathogenic nematodes: A potential biological control option against ambrosia beetle in the southeast. **Eddie K. Slusher**, David Shapiro-Ilan. USDA-ARS Southeastern Fruit and Tree Nut Research, Byron, GA.

10:00 AM Recent insecticide control studies of major vegetable insect pests in Georgia. **David G. Riley** and Alton N. Sparks, Jr. Department of Entomology, University of Georgia, Tifton, GA.

10:10 - 10:30 AM Break

10:30 AM Assessing sugarcane aphid resistance in sorghum in relation to plant maturity and morphology. **Somashekhar Punhuri**¹, Addissu Ayele¹, Karen Harris-Shultz², Joseph Knoll², Alisa Coffin³, Haile Tadesse³, Hanxia Li⁴, Jason Wallace⁵. ¹Agriculture Research Station, Fort Valley State University, Fort Valley, GA, ²USDA-ARS Crop Genetics and Breeding Research, Tifton, GA, ³USDA-ARS Southeast Watershed Research, Tifton, GA, ⁴Institute of Bioinformatics, University of Georgia, Athens, GA, ⁵Department of Crop & Soil Sciences, University of Georgia, Athens, GA.

10:40 AM The future of grape root borer management post chlorpyrifos ban. **Brett Blaauw**¹ and David Shapiro-Ilan². ¹Department of Entomology, University of Georgia, Athens, GA. ²USDA-ARS Southeastern Fruit and Tree Nut Research, Byron, GA.

10:50 AM Host plant resistance, foliar insecticide application and natural enemies play a role in the management of *Melanaphis sorghi* (Hemiptera: Aphididae) in grain sorghum. **Osariyekemwen Uyi**¹, Sriyanka Lahiri^{1,2}, Xinzhi Ni³, David Buntin⁴, Alana Jacobson⁵, Francis P. F. Reay-Jones⁶, Somashekhar Punhuri⁷, Anders S. Huseeth⁸, Michael D. Toews¹. ¹Department of Entomology, University of Georgia, Tifton, GA, ²Entomology and Nematology Department, University of Florida, Wimauma, FL, ³USDA-ARS Crop Genetics and Breeding Research, Tifton, GA, ⁴Department of Entomology, University of Georgia, Griffin, GA, ⁵Department of Entomology and Plant Pathology, Auburn University, Auburn, AL, ⁶Department of Plant and Environmental Sciences, Clemson University, Florence, SC, ⁷Fort Valley State University, Fort Valley, GA, ⁸Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC.

11:00 AM A systems approach to improving cotton production and profitability. **Michael D. Toews**¹, Sriyanka Lahiri^{1,2}, Apurba Barman^{1,3}, Sarah Hobby¹, Allison Randell^{1,4}, Phillip Roberts¹. ¹Department of Entomology, University of Georgia, Tifton, GA, ²Entomology and Nematology Department, University of Florida, Wimauma, FL, ³University of California Cooperative Extension-Imperial County, Holtville, CA, ⁴Premium Peanut, Douglas, GA.

11:10 AM Spotted-wing drosophila monitoring and management update. **Ashfaq Sial**, Arun Babu, Babu Panthi. Department of Entomology, University of Georgia, Athens, GA.

11:20 - 12:00 PM Business Meeting

STUDENT POSTERS

- SP-1 Residual activity of insecticides against adult *Systema frontalis* under laboratory conditions. **Rehan Arshad** and Shimat V. Joseph. Department of Entomology, University of Georgia, Griffin, GA.
- SP-2 Occurrence of beneficial wasps on centipedegrass lawns. **Oluwatomi Ibiyemi**¹, David Jespersen², Karen Harris-Shultz³, Shimat V. Joseph¹. ¹Department of Entomology, University of Georgia, Griffin, GA, ²Department of Crop and Soil Science, University of Georgia, Griffin, GA, ³USDA-ARS Crop Genetics and Breeding Research, Tifton, GA.
- SP-3 The impact of temperature on the development of *Lucilia coeruleiviridis*. **Deven Hutton**, Daleana Reyes Alejo, Evan Lampert. Department of Biology, University of North Georgia, Oakwood, GA.
- SP-4 Post-mortem observations on the North Georgia population of Brood X periodical cicadas. **Gaby Perez**, Sydney Marie Jones, Evan Lampert. University of North Georgia, Oakwood, GA.
- SP-5 Evaluating new approaches for plum curculio management in southeastern peaches. **Tzu-Chin Liu** and Brett Blaauw. Department of Entomology, University of Georgia, Athens, GA.
- SP-6 A survey of *Chrysobothris femorata* (Coleoptera: Buprestidae) and other buprestids in Georgia specialty crop systems. **Zia Williamson**¹, Shimat V. Joseph¹, Brett Blaauw². ¹Department of Entomology, University of Georgia, Griffin, GA, ²Department of Entomology, University of Georgia, Athens, GA.
- SP-7 Blueberries for you, for me, and the bees. **Priscilla Howard**. Department of Entomology, University of Georgia, Athens, GA.
- SP-8 Recent northward range expansion of the invasive ant, *Pheidole obscurithorax*. **Juan Jeronimo-Rangel**, Joshua D. Gibson, Alan Harvey. Department of Biology, Georgia Southern University, Statesboro, GA.
- SP-9 A review of non-mosquito vector-borne and zoonotic pathogens of public health importance in Bangladesh. **Shobhan Das** and Marina E. Ereemeeva. Jian-Ping Hsu College of Public Health, Georgia Southern University, Statesboro, GA.
- SP-10 Use of *Galleria mellonella* larvae as a model of *Bartonella bacilliformis* infection. **Garrett J. Cutchin**, William E. Hervey, Marina E. Ereemeeva. Jian-Ping Hsu College of Public Health, Georgia Southern University, Statesboro, GA.
- SP-11 Transcriptional expression of antimicrobial peptides in *Galleria mellonella* larvae infected with *Rickettsia rickettsii*. **William E. Hervey**, Shobhan Das, Marina E. Ereemeeva. Jian-Ping Hsu College of Public Health, Georgia Southern University, Statesboro, GA.

STUDENT POSTERS - CONTINUED

- SP-12 New ant in the big city: Known natural history of *Lasius emarginatus* in its native range and potential impacts of a recent US introduction. **Samantha Kennett** and Clint Penick. Department of Ecology, Evolutionary and Organismal Biology, Kennesaw State University, Kennesaw, GA.
- SP-13 Analysis of migratory butterfly activity along the Atlantic Flyway in Georgia. **Maggi Veiga**, David Armstrong, Shelley Prestridge, Anne Sanford, Carlie Blackburn, C. Tate Holbrook. Department of Natural Sciences, College of Coastal Georgia, Brunswick, GA.
- SP-14 Depicting wild bee communities and native plants in the southeastern blueberry system. **Grace Padgett**¹, Sarah M. Rezende¹, Raina Singleton², Samantha Castro², Bodie Pennisi³, Jason M. Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA, ²Woodard & Curran, Duluth, GA, ³Department of Horticulture, University of Georgia, Griffin, GA.
- SP-15 Hybrid mortality in parasitoid wasps, *Nasonia vitripennis* and *Nasonia giraulti*. **Michael Shaw**. Department of Biology, Georgia Southern University, Statesboro, GA.
- SP-16 Arthropod predators in Georgia peanut landscapes. **Melissa D. Thompson**¹, Erin E. Grabarczyk², Rachel Perez¹, Emmalee Milner¹, Jason M. Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA, ²USDA-ARS Southeast Watershed Research, Tifton, GA.
- SP-17 Exploring the potential of using arthropod-resistant acylsugar lines of tomato for whitefly management. **Swikriti Pandey**¹, Bhabesh Dutta², Juang-Horng Chong³, Martha Ann Mutschler-Chu⁴, Jason M. Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA, ²Department of Plant Pathology, University of Georgia, Tifton, GA, ³College of Agriculture, Forestry and Life Sciences, Clemson University, Darlington, SC, ⁴School of Integrative Plant Science, Cornell University, Ithaca, NY.
- SP-18 Revealing the diet of *Bemisia tabaci* in Georgia agroecosystem using molecular diagnostics tools. **Albertha Parkins**¹, Arash Kheirodin¹, Michael Crossley², Jason Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA, ²University of Delaware, Newark, NJ.
- SP-19 Effects of proximity to corn and insecticide applications on seasonal abundance of two rootworm pests, *Diabrotica undecimpunctata* and *Diabrotica balteata*, in Georgia peanut fields. **A.L. Skipper**, S. McAllister, K. Hill, M.R. Abney. Department of Entomology, University of Georgia, Tifton, GA.



REGULAR MEMBER POSTERS

- RP-1 Characterizing the spatiotemporal distribution of *Halyomorpha halys* (Stål) across a Georgia orchard system. **Erin E. Grabarczyk**¹, Ted E. Cottrell², P. Glynn Tillman¹. ¹USDA-ARS Southeast Watershed Research, Tifton, GA, ²USDA-ARS Southeastern Fruit and Tree Nut Research, Byron, GA.
- RP-2 Bt trait efficacy against corn earworm (*Helicoverpa zea*) for improving grain yield and reducing mycotoxin contamination of field corn. **W. Yancey Barton**¹, G. David Buntin¹, Michael D. Toews². ¹Department of Entomology, University of Georgia, Griffin, GA, ²Department of Entomology, University of Georgia, Tifton, GA.
- RP-3 Asian longhorned ticks (*Haemaphysalis longicornis*) are invading Georgia. **Nancy C. Hinkle**¹, Jacob W. Fowler², Michael J. Yabsley³. ¹Department of Entomology, University of Georgia, Athens GA, ²Department of Animal and Dairy Science, University of Georgia, Athens, GA, ³Warnell School of Forestry and Natural Resources and College of Veterinary Medicine, University of Georgia, Athens, GA.
- RP-4 Turn on your phone and go to GTBOP.COM: The myriad uses of webinar recordings. **Dan Suiter**^{1,2}, Shimat V. Joseph¹, Bodie Pennisi^{2,3}, Beth Horne², George Braman², Kimberly Allen². ¹Department of Entomology, University of Georgia, Griffin, GA, ²Center for Urban Agriculture, University of Georgia, Griffin, GA, ³Department of Horticulture, University of Georgia, Griffin, GA.
- RP-5 Factors affecting capture of Coccinellidae in traps. **Ted Cottrell** and Emily Kemp. USDA-ARS Southeastern Fruit and Tree Nut Research, Byron, GA.
- RP-6 Monitoring plant and arthropod community succession in habitat enhancements for agrivoltaic ecosystems. **Joshua Grant**¹, Shereen Xavier², Bodie Pennisi², Keren Giovengo³, Jordan Macknick⁵, Craig Kvien⁴, Jason M. Schmidt^{1,2}. ¹Department of Entomology, University of Georgia, Tifton, GA, ²Department of Horticulture, University of Georgia, Griffin, GA, ³University of Georgia Marine Extension, Brunswick, GA, ⁴Department of Crop and Soil Sciences, University of Georgia, GA, ⁵National Renewable Energy laboratory, Golden, CO.



Larva of the saltmarsh moth, *Estigmene acrea* (Erebidae). COVER PHOTO BY **APURBA BARMAN**, Entomology, University of GA & University of CA Cooperative Extension.

Other photos contributed by Nancy Hinkle and Kris Braman.

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1965	H. H. Tippins	1992	James R. Collins	2019	Ed Mondor
1966	H. L. Pollard	1993	T. Don Canerday		



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
16-18 March 1977	Downtowner Motor Inn, Albany
15-17 March 1978	King and Prince Hotel, St. Simons Island

PAST MEETINGS OF THE GES

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
9-10 April 2015	Villas by the Sea, Jekyll Island
6-8 April 2016	Callaway Gardens, Pine Mountain
5-7 April 2017	Villas by the Sea, Jekyll Island
4-6 April 2018*	Unicoi State Park and Lodge, Helen
10-12 April 2019	Lake Blackshear Resort & Golf Club, Cordele

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

STUDENT SPEAKERS

ADHIKARI, ROSAN	THURSDAY, APRIL 14	4:30 PM
AIGNER, BENJAMIN	THURSDAY, APRIL 14	4:20 PM
ARSHAD, REHAN	THURSDAY, APRIL 14	1:50 PM
CHEN, JASON	THURSDAY, APRIL 14	3:40 PM
GHIMIRE, MAHESH	THURSDAY, APRIL 14	2:00 PM
IBIYEMI, OLUWATOMI	THURSDAY, APRIL 14	3:20 PM
KALDOR, AMOS	THURSDAY, APRIL 14	2:40 PM
KWONG, ZEE	THURSDAY, APRIL 14	1:30 PM
LENNON, KYLIE	THURSDAY, APRIL 14	2:50 PM
MENDIOLA, SANDRA	THURSDAY, APRIL 14	3:30 PM
MULLAN, FRANCIS	THURSDAY, APRIL 14	2:20 PM
NEUPANE, SUBIN	THURSDAY, APRIL 14	3:50 PM
PANDEY, SUDEEP	THURSDAY, APRIL 14	4:10 PM
PERIER, JERMAINE	THURSDAY, APRIL 14	4:00 PM
REZENDE, SARAH	THURSDAY, APRIL 14	2:30 PM
TOLEDO, PEDRO	THURSDAY, APRIL 14	4:40 PM
VILLA, SCOTT	THURSDAY, APRIL 14	1:40 PM
WILLIAMSON, ZIA	THURSDAY, APRIL 14	2:10 PM

REGULAR MEMBER SPEAKERS

BLAAUW, BRETT	FRIDAY, APRIL 15	10:40 AM
BUNTIN, DAVID	FRIDAY, APRIL 15	8:00 AM
GIBSON, JOSHUA	FRIDAY, APRIL 15	9:30 AM
GRIFFIN, BECKY	FRIDAY, APRIL 15	8:10 AM
HARVEY, ALAN	FRIDAY, APRIL 15	8:30 AM
HOBBY, SARAH	FRIDAY, APRIL 15	8:40 AM
JOSEPH, SHIMAT	FRIDAY, APRIL 15	8:50 AM
KEYHANI, NEMAT	THURSDAY, APRIL 14	10:48 AM
KHEIRODIN, ARASH	FRIDAY, APRIL 15	8:20 AM
LAMPERT, EVAN	FRIDAY, APRIL 15	9:20 AM
PECK, DANIEL	FRIDAY, APRIL 15	9:10 AM
PUNNURI, SOMASHEKHAR	FRIDAY, APRIL 15	10:30 AM
RILEY, DAVID	FRIDAY, APRIL 15	10:00 AM
ROBERTS, PHILLIP	FRIDAY, APRIL 15	9:00 AM
SCHMIDT, JASON	THURSDAY, APRIL 14	11:12 AM
SHAPIRO-ILAN, DAVID	THURSDAY, APRIL 14	11:36 AM
SIAL, ASHFAQ	FRIDAY, APRIL 15	11:10 AM

REGULAR MEMBER SPEAKERS - CONTINUED

SIMMONS, ALVIN	THURSDAY, APRIL 14	10:00 AM
SLUSHER, EDDIE.	FRIDAY, APRIL 15.	9:40 AM
SLUSHER, EDDIE.	FRIDAY, APRIL 15.	9:50 AM
TOEWS, MICHAEL	FRIDAY, APRIL 15.	11:00 AM
UYI, OSARIYEKEMWEN	FRIDAY, APRIL 15.	10:50 AM
WU, SHAOHUI	THURSDAY, APRIL 14.	10:24 AM

STUDENT POSTERS

ARSHAD, REHAN.	STUDENT POSTER (SP-1)
CUTCHIN, GARRETT	STUDENT POSTER (SP-10)
DAS, SHOBHAN.	STUDENT POSTER (SP-9)
HERVEY, WILLIAM.	STUDENT POSTER (SP-11)
HOWARD, PRISCILLA.	STUDENT POSTER (SP-7)
HUTTON, DEVEN.	STUDENT POSTER (SP-3)
IBIYEMI, OLUWATOMI	STUDENT POSTER (SP-2)
JERONIMO-RANGEL, JUAN.	STUDENT POSTER (SP-8)
KENNETT, SAMANTHA.	STUDENT POSTER (SP-12)
LIU, TZU-CHIN	STUDENT POSTER (SP-5)
PADGETT, GRACE	STUDENT POSTER (SP-14)
PANDEY, SWIKRITI.	STUDENT POSTER (SP-17)
PARKINS, ALBERTHA.	STUDENT POSTER (SP-18)
PEREZ, GABY	STUDENT POSTER (SP-4)
SHAW, MICHAEL	STUDENT POSTER (SP-15)
SKIPPER, A.	STUDENT POSTER (SP-19)
THOMPSON, MELISSA.	STUDENT POSTER (SP-16)
VEIGA, MAGGI	STUDENT POSTER (SP-13)
WILLIAMSON, ZIA.	STUDENT POSTER (SP-6)

REGULAR MEMBER POSTERS

BARTON, W. YANCEY.	REGULAR POSTER (RP-2)
COTTRELL, TED	REGULAR POSTER (RP-5)
GRABARCZYK, ERIN	REGULAR POSTER (RP-1)
GRANT, JOSHUA.	REGULAR POSTER (RP-6)
HINKLE, NANCY	REGULAR POSTER (RP-3)
SUITER, DAN	REGULAR POSTER (RP-4)

NOTES

PROGRAM UPDATES

Thursday, April 14

M.S. Student Paper Competition

- 3:00 PM Outdoor Bait selection trials for the Asian Needle Ant, *Brachyponera* (= *Pachycondyla*) *chinensis* (Emery), using three commercial baits. **Karen Corsetti** and Dan Suiter. Department of Entomology, University of Georgia, Griffin, GA.

3:10 – 3:20 PM Break (Authors at Posters)

STUDENT POSTERS

- SP-16 Colony recognition and social parasitism in Southeastern cone ants, *Dorymyrmex smithi* and *Dorymyrmex bureni*. **Renee K. Nowicki** and Joshua Gibson. Department of Biology, University of Georgia Southern, Statesboro, GA.

REGULAR MEMBER POSTERS

- R-7 Arthropod predators in Georgia peanut landscapes. **Melissa D. Thompson**¹, Erin E. Grabarczyk², Rachel Perez¹, Emmalee Milner¹, Jason M. Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA, ²USDA-ARS Southeast Watershed Research, Tifton, GA.

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