

Georgia Entomological Society

Annual Meeting

Helen, GA

April 19-21,
2023

85





WELCOME •

David Shapiro-Ilan, *President*

Welcome to the 85th Meeting of the Georgia Entomological Society! Last year was an especially great meeting. Not just because of the excellent program chair (me) but because it was so nice to get together again after the hiatus caused by the Covid pandemic. Now, it is great to meet again two years in a row!

What an awesome location to be in the beautiful mountains of Georgia! My plan is to camp in a tent

the first part of the week here at Unicoi, and then come to the meeting on Wednesday. I love the contrast between tent camping and then going to a cushy hotel. Hope everyone has time to explore the hiking trails and other outdoor activities while you are here.

Last year, I was very impressed by the diversity of institutions represented at our meeting including the College of Coastal Georgia, Clemson University Emory University, Fort Valley State University, Georgia Southern University, Kennesaw State University, University of Georgia, University of North Georgia, USDA-ARS, and many industry participants. I hope scientists from all these institutions have returned and that we keep expanding! Please introduce yourself to people you don't know - we are a friendly group! .

I was also greatly impressed by the diversity of presentations last year, from the basic side of entomology to the applied. The diversity of participants and talks clearly indicates that this meeting is for all entomologists across Georgia and surrounding states!

David Shapiro-Ilan is the Research Leader at the USDA-ARS Southeastern Fruit and Tree Nut Research Station, Byron, GA. His career path includes a B.S. in Biology, University of Michigan; Peace-Corps Volunteer, Niger; M.S. in Entomology, Louisiana State University; Ph.D. in Entomology, Iowa State University; Fulbright Post-doctoral Scholar, Volcani Center, Israel; Research Insect Pathologist, IBCS, Inc.; Assistant in Entomology, University of Florida; joined USDA-ARS in 1999. Dr. Shapiro-Ilan's research focuses on invertebrate pathology and microbial control targeting pecan and peach as well as other cropping systems. Shapiro-Ilan has published > 225 peer-reviewed journal articles, 27 book chapters, co-edited 6 books and is inventor on 8 patents. Selected awards include Fellow of the Entomological Society of America, Fellow of the Society of Nematologists, Excellence in IPM (SEB-ESA) and > \$22 million as PI/co-PI on competitive grants. He currently serves as Editor-in-Chief for the Journal of Invertebrate Pathology.

SCHEDULE OVERVIEW

Wednesday, April 19, 2023

- 1:00 – 5:00 PM Fishing Tournament* (*Helen Riverside Park – Will Hudson*)
- 4:00 – 6:00 PM Registration (*Masters Hall Lobby*)
- 4:00 – 7:00 PM Poster Set Up (*Masters Hall 1 & 2*)
- 5:15 PM Entomology Hike* (*Firepit – Jason Schmidt*)
- 6:30 PM Executive Committee Meeting (*Board Room*)

Thursday, April 20, 2023

- Breakfast (*on your own*)
- 7:00 – 8:30 AM Registration (*Masters Hall Lobby*)
- 7:00 – 8:00 AM Poster Set Up (*Masters Hall 1 & 2*)
- 7:00 – 7:55 AM Load Talks (*Masters Hall 3 & 4*)
- 8:00 AM – 5:00 PM Poster Displays (*Masters Hall 1 & 2*)
- 8:00 – 8:15 AM Welcome & Announcements (*Masters Hall 3 & 4*)
- 8:15 – 8:45 AM 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 – 9:50 AM Break**
- 9:50 – 10:20 AM Keynote Speaker - Ed Mondor**
- 10:20 – 11:00 AM B.S. Student Paper Competition
- 11:00 AM – NOON M.S. Student Paper Competition (*Session 1*)
- NOON – 1:30 PM Luncheon & Photo Salon (*Masters Hall 1 & 2*)**
- 1:30 – 2:10 PM M.S. Student Paper Competition (*Session 2*) (*Masters Hall 3 & 4*)
- 2:10 – 2:40 PM Break (*Authors at Posters*) (*Masters Hall 1 & 2*)**
- 2:40 – 4:50 PM Ph.D. Student Paper Competition (*Masters Hall 3 & 4*)
- 6:00 – 8:00 PM GES Mixer & Student Awards Presentations**

Friday, April 21, 2023

- Breakfast (*on your own*)
- 7:00 – 8:00 AM Registration (*Masters Hall Lobby*)
- 7:00 – 7:55 AM Load Talks onto Computer (*Masters Hall 3 & 4*)
- 8:00 – 8:05 AM Welcome & Announcements (*Masters Hall 3 & 4*)
- 8:05 – 9:25 AM Symposium - Pollinators Across Georgia**
- 9:25 – 9:40 AM Break**
- 9:40 – 12:30 PM Regular Member Paper Session (*Masters Hall 3 & 4*)
- 12:30 – 1:00 PM Business Meeting (*Masters Hall 3 & 4*)

**FOUNDERS HONOREE •*****Nancy Hinkle***

Dr. Nancy C. Hinkle is the University of Georgia's Veterinary Entomologist, concerned with ectoparasites of vertebrate animals including cattle, poultry, horses, sheep, goats, pets, and wildlife. She is particularly involved with economically significant arthropods in animal agriculture, with a focus on flies, poultry beetles, and ectoparasitic mites.

Nancy grew up on a cow-calf operation 20 miles from Auburn, AL. She was valedictorian of her Dadeville High School class and a National Merit Scholar. Her parents owned and operated a manufacturing plant where she worked summers and holidays, convincing her that the business world was not for her. Once she found out that there was a profession called entomology and that one could make a living at it, her career path was set.

After receiving her B.S. (Biology) and M.S. (studying with Gary Mullen in Medical Entomology) degrees from Auburn University, Nancy worked at the Coastal Plain Experiment Station in Tifton for four years, and then pursued her PhD at the University of Florida (in Phil Koehler's program). While a student at UF, she worked as a technician at the USDA's Insects Affecting Man & Animals Laboratory, convincing her that research on animal pests was what she wanted to devote her career to. Upon completion of her PhD, she was hired by the University of California, Riverside, as the Extension Veterinary Entomologist for California. After nine years there she was hired by UGA and joined the faculty in Athens in 2001.

Along with her graduate students and collaborators, Nancy has continued her work on house flies on dairies, darkling beetles in broiler houses, northern fowl mites on chickens, and horn flies on cattle. And yes, she still takes the 'invisible bugs' calls.

She has served as President of the Southeastern Branch of ESA, of ESA's Medical, Urban, and Veterinary Entomology section (when it was called Section D), for the Society for Vector Ecology, and for the Georgia Entomological Society. She has been recognized with Lifetime Achievement Awards from the Southern IPM Center and the Livestock Insect Workers Conference.

The first GES meeting Nancy attended was as a graduate student, presenting on cattle ear tags for horn fly control at the 1981 meeting in Tifton. As GES president (2020-2022), she was particularly pleased to preside over the 2022 GES meeting 41 years later.

FOUNDERS LECTURER •

Wayne Gardner

Wayne Gardner is Professor Emeritus with the University of Georgia. He joined the UGA faculty of the Department of Entomology as part of the Griffin Campus unit in January 1979. Wayne advanced through the professorial ranks conducting research in various cropping systems against a diversity of insect pests. He was especially interested in the development of microbial agents for the biological control of several target pest species including the pecan weevil, lepidopteran larvae, various aphids, and the kudzu bug. He also served in several administrative roles including Interim Department Head (1996-1997), Director of the Georgia Center for Urban Agriculture (1998-2002), and Director of the UGA Research and Education Garden (1998-2019). Wayne retired from the University in 2019.



Dr. Gardner joined the Georgia Entomological Society as a student member in 1975 and has since been an active member of the Society serving on various committees and as President in 2004-2005. He was honored as a GES Fellow in 2006 and was the Founders Honoree in 2013. Wayne currently serves as Editor of the *Journal of Entomological Science*, a position he has held since 1993. Prior to that, he served as Business Manager for the *Journal* from 1988 to 1993.

Wayne remains busy in retirement with editorial duties, coaching elite competitive youth soccer, volunteering with rescue dogs, and enjoying family and friends.

WELCOME, *continued*

I'm sure we will have another great program this year. The Founder's Honoree is none other than our Past-President, Nancy Hinkle. She and I had been brainstorming on potential candidates, but when I talked to others there was a unanimous push for the honor to go to Nancy (much to her surprise). Nancy has done so much for the society and the discipline of entomology and is thus highly deserving of the award! Also, I want to thank Wayne Gardner for giving the Founder's Lecture; this is his fourth time giving the lecture and he was also a Founder's Honoree in 2013.

I am extremely grateful to those that made this 2023 meeting happen including committee chairs and members, judges, executive officers, etc. I want to especially thank Nancy Hinkle as Past President for guidance, Brett Blaauw as Program Chair, and Jason Schmidt for leading the local arrangements and site selection committees. We can't do this meeting without our excellent volunteers!

In conclusion, I hope everyone has a great meeting; It was an honor to serve as President this past year!

SCHEDULE

THURSDAY 4•20

Breakfast (on your own)

- 7:00 – 8:30 AM Registration (Masters Hall Lobby)
- 7:00 – 8:00 AM Poster Set Up (Masters Hall 1 & 2)
- 7:00 – 7:55 AM Load Talks (Masters Hall 3 & 4)
- 8:00 AM – 5:00 PM Poster Displays (Masters Hall 1 & 2)

Opening Session

MASTERS HALL 3 & 4 • PRESIDENT DAVID SHAPIRO-ILAN, PRESIDING

- 8:00 – 8:15 AM Welcome & Announcements
- 8:15 – 8:45 AM GES Founders Lecture Honoring **Nancy Hinkle**
Presented by **Wayne Gardner**
- 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 – 9:50 AM **Break**

9:50 – 10:20 AM KEYNOTE

Bring your Boots: Life Lessons from Working with the Dead

Ed Mondor, Department of Biology, Georgia Southern University, Statesboro, GA.

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B.S. Student Paper Competition

• MASTERS HALL 3 & 4 •

- 10:20 AM Temporal Occurrence and Abundance of Bees on Weed-Infested Turfgrass. **Aastha Jaiswal** and Shimat V. Joseph. Department of Entomology, University of Georgia, Griffin, GA.
- 10:30 AM *Galleria mellonella* as an Invertebrate Model of *Bartonella bacilliformis* Infection and Associated Antimicrobial Peptide Response. **Garrett Cutchin** and Marina Eremeeva. Department of Biology, Georgia Southern University, Statesboro, GA.
- 10:40 AM The Effects of Specified Gendered Colonies on *Laricobius nigrinus* Rearing Efficiency in a Lab Setting. **Nick Stoltz**. Department of Biology, University of North Georgia, Dahlonega, GA.
- 10:50 AM Do cuticle striations provide abrasion resistance in digging ants? **Rebecca Senft** and Clint Penick. Department of Ecology, Evolution, and Organismal Biology, Kennesaw State University, Kennesaw, GA.

M.S. Student Paper Competition

• MASTERS HALL 3 & 4 •

- 11:00 AM Lethal and sublethal effects of selective insecticides on two generalist predators of whiteflies and their contribution. **Alberta Parkins**, Arash Kheirodin, Jason M. Schmidt. Department of Entomology, University of Georgia, Tifton, GA.
- 11:10 AM Effects of insecticides on abundance of beneficial arthropods in turfgrass. **Mahesh Ghimire** and Shimat V. Joseph. Department of Entomology, University of Georgia, Griffin, GA.
- 11:20 AM Sublethal effects of pyriproxyfen and cyantraniliprole on the reproductive behavior of sweetpotato whitefly, *Bemisia tabaci*. **Mierla M. Nagaoka**, Paulo S. G. Cremones, and David G. Riley. Department of Entomology, University of Georgia, Tifton, GA.
- 11:30 AM Effects of various bug repellants on diptera populations. **Caley Rentz**. Department of Entomology and Nematology, University of Florida, Gainesville, FL.
- 11:40 AM Enhancing hedgerow systems in fruit tree production to improve beneficial insect diversity and abundance. **Tristen Dittman** and Brett Blaauw. Department of Entomology, University of Georgia, Athens, GA.
- 11:50 AM Does invasive shrub cover predict presence of non-native bee species? **M.R. Edelkind-Vealey**¹, S.K. Braman¹, and M.D. Ulyshen². ¹Department of Entomology, University of Georgia, Athens, GA; ²USDA Forest Service, Athens, GA.

NOON - 1:30 PM Luncheon (Masters Hall 1 & 2)
Photo Salon, Presented by **Lisa Ames**

M.S. Student Paper Competition - Continued

• MASTERS HALL 3 & 4 •

- 1:30 PM Bait Selection by the Asian Needle Ant, *Brachyponera* (= *Pachycondyla*) *chinensis* (Emery). **Karen A. Corsetti** and Daniel R. Suiter. Department of Entomology, University of Georgia, Griffin, GA.
- 1:40 PM *Dorymyrmex smithi* (Hymenoptera: Formicidae): evidence of unicolonial behavior in southeastern Georgia. **Renee Nowicki** and Joshua D. Gibson. Department of Biology, Georgia Southern University, Statesboro, GA.
- 1:50 PM The ManhattAnt: Identification and dietary ecology of a recently introduced urban ant in New York City, *Lasius emarginatus*. **Samantha Kennett**¹, Clint Penick¹, and Bernhard Seifert². ¹Department of Ecology, Evolution, and Organismal Biology, Kennesaw State University, Kennesaw, GA; ²Senckenberg Museum of Natural History, Frankfurt, Germany.
- 2:00 PM Occupational Safety Regulations in Controlling Insect Hazards. **Michael Goldman**. Department of Entomology, University of Nebraska-Lincoln, Lincoln, NE.

2:10 – 2:40 PM *Break (Authors at Posters) (Masters Hall 1 & 2)*

Ph.D. Student Paper Competition

• MASTERS HALL 3 & 4 •

- 2:40 PM Impact of planting date, mulch type, and row cover on whiteflies, silverleaf disorder, and whitefly-transmitted viruses in fall-grown squash. **Clarence Codod**¹, Bhabesh Dutta¹, Robert Kemerait, Jr.¹, Alton Sparks, Jr.² ¹Department of Plant Pathology; ²Department of Entomology, University of Georgia, Tifton, GA.
- 2:50 PM Screening for host plant resistance against CuLCrV, CYSDV, and CCYV in squash (*Cucurbita* sp.) germplasm lines. **Gurjit Singh**¹, Alex Luckew², Cecilia McGregor², and Rajagopalbabu Srinivasan¹. ¹Department of Entomology, University of Georgia, Griffin, GA; ²Institute of Plant Breeding, Genetics, and Genomics, University of Georgia, Athens, GA.
- 3:00 PM Identification of cytochrome P450s potentially involved in resistance to imidacloprid and cyantraniliprole in *Bemisia tabaci* (Hemiptera: Aleyrodidae) in Georgia, USA. **Md. Abdullah Al Baki**¹, Jermaine D. Perier², Donald Champagne¹, and David Riley². ¹Department of Entomology, University of Georgia, Athens, GA; ²Department of Entomology, University of Georgia, Tifton, GA.
- 3:10 PM Estimating the exposure of *Bemisia tabaci* (Hemiptera: Aleyrodidae) to imidacloprid and cyantraniliprole in the cotton system. **J.D. Perier**¹, A.F. Lagalante², E. P. McCarthy³, A.M. Simmons⁴, and D.G. Riley¹. ¹Department of Entomology, University of Georgia, Tifton, GA; ²Department of Chemistry, Villanova University, Villanova, PA; ³Warnell School of Forestry and Natural Resources, University of Georgia, Tifton, GA; ⁴USDA,

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- Agricultural Research Service, U.S. Vegetable Laboratory, Charleston, SC.
- 3:20 PM Evaluation of insecticides for flower thrips (*Frankliniella* spp) control in blueberry. **Rosan Adhikari** and Ashfaq A. Sial. Department of Entomology, University of Georgia, Athens, GA.
- 3:30 PM Effects of fence barrier on incidence and damage of *Systema frontalis* (Coleoptera: Chrysomelidae) adults in container nurseries. **Rehan Arshad** and Shimat V. Joseph, Department of Entomology, University of Georgia, Griffin, GA.
- 3:40 PM Does cotton leafroll dwarf virus (CLRDV) infection influence biology and preference of its vector *Aphis gossypii*? **Sudeep Pandey**¹, Phillip Roberts², Sudeep Bag³, Alana Jacobson⁴, Rajagopalbabu Srinivasan¹. ¹Department of Entomology, University of Georgia, Griffin, GA; ²Department of Entomology, University of Georgia, Tifton, GA; ³Department of Plant Pathology, University of Georgia, Tifton, GA; ⁴Department of Entomology and Plant Pathology, Auburn University, Auburn, AL.
- 3:50 PM Metarhizium fungi as a coffee seed inoculant against coffee leaf miner (*Leucoptera coffeella*). **Jéssica Leticia Abreu Martins**¹, Mayara Loss Franzin¹, Larissa Cristina Rocha Magina¹, Douglas da Silva Ferreira¹, Elem Fialho Martins¹, Simon Luke Elliot¹, Fernando Hercos Valicente¹, Jason M. Schmidt², and Madelaine Venzon¹. ¹Federal University of Viçosa, Viçosa-MG, Brazil; ²Department of Entomology, University of Georgia, Tifton, GA.
- 4:00 PM Results of the 2019-22 oxalic acid research for *Varroa destructor* control in *Apis mellifera* colonies. **Jennifer Berry**¹, Lewis Bartlett², Geoff Williams³, Kris Braman¹, Keith Delaplane¹, Selina Bruckner³, Christian Baker³. ¹Department of Entomology, University of Georgia, Athens, GA; ²Department of Ecology and Entomology, University of Georgia, Athens, GA; ³Department of Entomology and Plant Pathology, Auburn University, Auburn, AL.
- 4:10 PM Centipedegrass pollen. **Daniel Ibiyemi** and Shimat Joseph. Department of Entomology, University of Georgia, Griffin, GA.
- 4:20 PM Landscape and floral-associated factors: Do they influence the abundance of bee groups in Georgia residential landscapes? **Zia Williamson** and Shimat Joseph. Department of Entomology, University of Georgia, Griffin, GA.
- 4:30 PM Lethal and sub-lethal effects of conventional and organic insecticides on the xeoitic and resident parasitoids of spotted-wing drosophila. **Subin B. Neupane**¹, Jason M. Schmidt², and Ashfaq A. Sial¹. ¹Department of Entomology, University of Georgia, Athens, GA; ²Department of Entomology, University of Georgia, Tifton, GA.
- 4:40 PM Effects of pruning and pest management strategies on pecan pests and nut yield. **Pedro Toledo**¹, Clive Bock², Cristina Pisani², Jason M. Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA; ²USDA-ARS Southeastern Fruit and Tree Nut Research Station, Byron, GA.

SCHEDULE

FRIDAY 4·21

Breakfast (on your own)

7:00 - 8:00 AM Registration (Masters Hall Lobby)

7:00 - 7:45 AM Load Talks (Masters Hall 3 & 4)

8:00 - 8:05 AM Welcome & Announcements

Symposium - Pollinators Across Georgia

• MASTERS HALL 3 & 4 •

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- 8:05 AM Bees in the city: Land of opportunity. **Kris Braman**. Department of Entomology, University of Georgia, Athens, GA.
 - 8:25 AM Complementarity in crop pollinating bees. **Keith Delaplane**. Department of Entomology, University of Georgia, Athens, GA.
 - 8:45 AM The humble hover fly: An overview of ecosystem services provided by world-famous mimics. **Scott Clem**. Department of Entomology, University of Georgia, Athens, GA.
 - 9:05 AM Flower flies (Diptera: Syrphidae) of North Georgia peach and apple orchards. **Kenneth W. McCravy**, Scott Clem, Sabrina A. Barbosa, and Brett R. Blaauw. Department of Entomology, University of Georgia, Athens, GA.

9:25 - 9:40 AM *Break*

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Regular Member Session

• MASTERS HALL 3 & 4 •

- 9:40 AM Renewed interest on prionus root borer management in Georgia pecan. **Apurba Barman** and Rajendra Acharya. Department of Entomology, University of Georgia, Tifton, GA.
- 9:50 AM Ambrosia beetle infestations in pecan and citrus crops. **Rajendra Acharya**, Shivakumar Veerlapati, and Apurba Barman. Department of Entomology, University of Georgia, Tifton, GA.
- 10:00 AM EPNs and Weevils: Use of entomopathogenic nematodes to manage weevils in pecan. **Eddie Kyle Slusher** and David Shapiro-Ilan. USDA-ARS Southeastern Fruit and Tree Nut Research Station, Byron, GA.
- 10:10 AM Entomopathogenic nematodes under field conditions. **David Shapiro-Ilan**¹, Fatma Kaplan², and Ed Lewis³. ¹USDA-ARS Southeastern Fruit and Tree Nut Research Station, Byron, GA; ²Pheronym, Inc., Davis, CA; ³Department of Entomology, Plant Pathology and Nematology, University of Idaho, Moscow, ID.
- 10:20 AM Novel biopesticide formulations with the nanoparticle technology. **Shaohui Wu**¹, Michael Toews¹, Guy Mechrez², Dana Ment³, and David Shapiro-Ilan⁴. ¹Department of Entomology, University of Georgia, Tifton, GA; ²Department of Food Science, Institute of Postharvest and Food Sciences, Volcani Center, Agricultural Research Organization, Rishon LeZion, Israel; ³Department of Plant Pathology and Weed Research, Institute of Plant Protection, Volcani Center, Agricultural Research Organization, Rishon LeZion, Israel; ⁴USDA-ARS, SE Fruit and Tree Nut Research Unit, Byron, GA.
- 10:30 AM Sugarberry (*Celtis laevigata*) dieback and mortality: Findings and future work. **Emilee M. Poole**, Michael D. Ulyshen, and Scott Horn. US Forest Service, Athens, GA.
- 10:40 AM Lack of genotypic diversity for *Sipha maydis* (Hemiptera: Aphididae) collected from Colorado, New Mexico, and Utah. **Karen Harris-Shultz**¹, Scott Armstrong², and Wyatt Hoback³. ¹USDA-ARS Crop Genetics and Breeding Research, Tifton, GA; ²USDA-ARS Peanut and Small Grains Research Unit, Stillwater, OK; ³Entomology & Plant Pathology, Oklahoma State University, Stillwater, OK.
- 10:50 AM Evolution of honey bee queen promiscuity. **Keith Delaplane**, Katherine Hagan, Lewis Bartlett, and Kevin Vogel. Department of Entomology, University of Georgia, Athens, GA.
- 11:00 AM Population dynamics of insect pests and beneficials on different snap bean cultivars. **Yinping Li**¹, George N. Mbata¹, and Alvin M. Simmons². ¹Fort Valley State University, Fort Valley, GA; ²USDA-ARS Vegetable Laboratory, Charleston, SC.
- 11:10 AM The effect of irrigation and corn border on rootworm abundance and pod damage in Georgia peanut. **Kemper Sutton**, Mark Abney, and April Skipper. Department of Entomology, University of Georgia, Tifton, GA.

- 11:20 AM Early season insecticide applications for lesser cornstalk borer, *Elasmopalpus lignosellus* (Zeller) management in peanuts. **Benjamin Reeves**¹ and Mark Abney². ¹University of Georgia Cooperative Extension, Berrien County, GA; ²Department of Entomology, University of Georgia, Tifton, GA.
- 11:30 AM Vegetable entomology in Georgia: Past, present and future. **David G. Riley** and Alton Sparks, Jr. Department of Entomology, University of Georgia, Tifton, GA.
- 11:40 AM Performance of Bt corn in Georgia: past, present, and future. **G. David Buntin**, Department of Entomology, University of Georgia, Griffin, GA.
- 11:50 AM Diversified coffee systems improve the parasitism rate of coffee leaf miner (*Leucoptera coffeella*). **Elem Fialho Martins**¹, Mayara Loss Franzin¹, Jéssica Mayara Coffler Botti¹, Jéssica Letícia Abreu Martins¹, André Lage Perez¹, Jason M Schmidt², Madelaine Venzon¹. ¹Agriculture and Livestock Research Enterprise of Minas Gerais (EPAMIG), Viçosa-MG, Brazil; ²Department of Entomology, University of Georgia, Tifton, GA.
- 12:00 PM Argentine ant (*Linepithema humile*) colony structure in Georgia. **Joshua D. Gibson**¹, Paige Caine², Stephanie Rohrbach¹, and Tolupe Ojo¹. ¹Department of Biology, Georgia Southern University, Statesboro, GA; ²School of Biological Sciences, Georgia Institute of Technology, Atlanta, GA.
- 12:10 PM Changes in cattle ectoparasite economics over 20 years in Georgia. **Nancy C. Hinkle**¹ and Raymond Fitzpatrick². ¹Department of Entomology, University of Georgia, Athens, GA; ²University of Georgia Cooperative Extension, Franklin County, Carnesville, GA.
- 12:20 PM Mating disruption for management of borers (Lepidoptera: Sesiidae) in southeastern peaches. **Ted E. Cottrell**¹, Dan Horton², Rao Balusu³, Matthew Price³, Edgar Vinson³, Ana Chicas-Mosier⁴, and Henry Fadamiro⁵. ¹USDA-ARS, Southeastern Fruit and Tree Nut Research Laboratory, Byron, GA; ²Department of Entomology, University of Georgia, Athens, GA; ³Department of Entomology and Plant Pathology, Auburn University, Auburn, AL; ⁴Center for Environmentally Beneficial Catalysis, University of Kansas, Lawrence, KS; ⁵Department of Entomology, Texas A&M University, College Station, TX.

12:30 – 1:00 PM **Business Meeting** (Masters Hall 3 & 4)

STUDENT POSTERS

- SP-1 Modeling changes in *Wolbachia* densities in *Aedes aegypti* under projected future climates. **Isabella Roeske**, Xorla Ocloo, and Gonzalo Vazquez-Prokopec. Department of Environmental Sciences, Emory University, Atlanta, GA.
- SP-2 Inquiline community within pecan-phylloxera galls. **J. Winston Cornish**¹, Pedro Toledo¹, Clive Bock², and Jason Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA; ²USDA-ARS Southeastern Fruit and Tree Nut Research Station, Byron, GA.
- SP-3 Quantitation of antibodies reacting with *Rickettsia* antigens in sera of healthy individuals from Georgia, USA. **Kay'La Brennon** and Marina E. Eremeeva. Jiann-Ping Hsu College of Public Health, Georgia Southern University, Statesboro, GA.
- SP-4 Do city-dwelling Joro spiders have higher fitness? **Nicole Woolridge**¹, Jason Schmidt², and Erin Grabarczyk¹. ¹Department of Biology, Valdosta State University, Valdosta, GA; ²Department of Entomology, University of Georgia, Tifton, GA.
- SP-5 Rescue from hybrid mortality in *Nasonia* wasps through an interspecific introgression of nuclear-encoded mitochondrial-targeted genes. **Sam McGinn**. Department of Biology, Georgia Southern University, Statesboro, GA.
- SP-6 Monitoring bee and spider abundance in augmented and natural areas in a southeast blueberry system. **Grace Padgett**¹, Sarah M. Rezende¹, Bodie Pennisi², Jason M. Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA; ²Department of Horticulture, University of Georgia, Griffin, GA.
- SP-7 Management of small hive beetle populations using entomopathogenic nematodes. **Kaitlyn Garland**¹, Yinping Li¹, George Mbata¹, David Shapiro-Ilan². ¹Agricultural Research Station, Fort Valley State University, Fort Valley, GA; ²USDA-ARS Southeastern Fruit and Tree Nut Research Station, Byron, GA.
- SP-8 Ant antimicrobials: Testing polarity and specificity. **Katy Chon** and Clint Penick. Department of Ecology, Evolution, and Organismal Biology, Kennesaw State University, Kennesaw, GA.
- SP-9 Surveillance of ticks and tick-borne pathogens along the walking paths and forests of Georgia Southern University, Statesboro. **Shobhan Das**, Chiamaka Ogwara, and Marina E. Eremeeva. Jiann-Ping Hsu College of Public Health, Georgia Southern University, Statesboro, GA.
- SP-10 Impact of morphology, reflectance, and hairs on the physiological limits of bees and their response to climate warming. **Theresa Wolff**¹, Clint Penick¹, Elsa Youngsteadt², Kevin McCluney³. ¹Department of Ecology, Evolution, and Organismal Biology, Kennesaw State University, Kennesaw, GA; ²Applied Ecology, North Carolina State University, Raleigh, NC; ³Department of Biological Sciences, Bowling Green State University, Bowling Green, OH.
- SP-11 Screening the efficacy of the repellent compounds verbenone and methyl salicylate on ambrosia beetles. **Thomas Scheyer** and Brett R. Blaauw. Department of Entomology, University of Georgia, Athens, GA.

STUDENT POSTERS - CONTINUED

- SP-12 Screening for host plant resistance against CuLCrV, CYSDV, and CCYV in squash (*Cucurbita* sp.) germplasm lines. **Gurjit Singh**¹, Alex Luckew², Cecilia McGregor², Rajagopalbabu Srinivasan¹. ¹Department of Entomology, University of Georgia, Griffin, GA; ²Institute of Plant Breeding, Genetics, and Genomics, University of Georgia, Athens, GA.
- SP-13 Rye rules windrows: Arthropod community in spring watermelons. **Joshua Grant**¹, Bodie Pennisi², Jason Schmidt¹. ¹Department of Entomology, University of Georgia, Tifton, GA; ²Department of Horticulture, University of Georgia, Griffin, GA.
- SP-14 Asian longhorned tick. **Raymond Fitzpatrick**¹ and Nancy C. Hinkle². ¹University of Georgia Cooperative Extension, Franklin County, Carnesville, GA; ²Department of Entomology, University of Georgia, Athens, GA.
- SP-15 Residual activity of insecticides against adult *Systema frontalis* (F.) (Coleoptera: Chrysomelidae) under laboratory conditions. **Rehan Arshad** and Shimat V. Joseph, Department of Entomology, University of Georgia, Griffin, GA.
- SP-16 Analysis of within-plant arthropod diversity in maritime grasslands. **Sara Meissner** and Elizabeth G. King. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA.
- SP-17 Prospective alternate hosts of an emerging polerovirus in cotton landscapes in the Southeastern United States. **Sudeep Pandey**¹, Phillip Roberts², Sudeep Bag³, Alana Jacobson⁴, Kassie Conner⁵, Kipling S. Balkcom⁶, Andrew J. Price⁶, and Rajagopalbabu Srinivasan¹. ¹Department of Entomology, University of Georgia, Griffin, GA; ²Department of Entomology, University of Georgia, Tifton, GA; ³Department of Plant Pathology, University of Georgia, Tifton, GA; ⁴Department of Entomology and Plant Pathology, Auburn University, Auburn, AL; ⁵Alabama Cooperative Extension System, Auburn University, AL; ⁶USDA-ARS, Soil Dynamics Research, Auburn, AL.
- SP-18 Effects of permethrin on ambrosia beetles in ornamental nurseries. **Zia Williamson**¹, Brett R. Blaauw², and Shimat V. Joseph¹. ¹Department of Entomology, University of Georgia, Griffin, GA; ²Department of Entomology, University of Georgia, Athens, GA.
- SP-19 An exciting IPM solution for boring pests: Establishing *Beauveria bassiana* as an endophyte in peach (*Prunus persica*). **Sabrina A. Barbosa**¹, Dario Chavez², Caterina Villari³, David Shapiro-Ilan⁴, and Brett R. Blaauw¹. ¹Department of Entomology, University of Georgia, Athens, GA; ²Department of Horticulture, University of Georgia, Griffin, GA; ³Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA; ⁴USDA-ARS Southeastern Fruit and Tree Nut Research Station, Byron, GA.
- SP-20 Biofabrication of silver nanoparticles (AgNPs) and their toxicity against Oriental fruit fly (*Bactrocera dorsalis*). **Dilawar Khan**^{1,2}, Asim Gulzar¹, Sobia Khaliq¹, Muhammad Tariq¹, Ashfaq Sial². ¹Department of Entomology, Arid Agriculture University, Rawalpindi, Pakistan; ²Department of Entomology, University of Georgia, Athens, GA.

SP-21 Genetic variation and intraguild predation with the crop pest predator *Harpalus pensylvanicus*. **Malcolm C. Peavy**, Pedro Rodriguez, William E. Snyder, and Patricia Moore. Department of Entomology, University of Georgia, Athens, GA.

REGULAR MEMBER POSTERS

- RP-1 Evaluation of novel behavioral management technologies to control spotted-wing drosophila. **Ashfaq Sial** and Arun Babu. Department of Entomology, University of Georgia, Athens, GA.
- RP-2 Filling a gap in entomology graduate student education: A course on statistics and experimental design. **Conor Fair**. Department of Entomology, University of Georgia, Athens, GA.
- RP-3 Investigating herbicide treatments for callery pear (*Pyrus calleryana*) management. **Emilee M. Poole**¹, David R. Coyle², James T. Vogt¹. ¹US Forest Service, Athens, GA; ²Department of Forestry and Environmental Conservation, Clemson University, Clemson, SC.
- RP-4 Insect feeding on sorghum bicolor pollen. **Karen Harris-Shultz**¹, Scott Armstrong², Michael Caballero³, William Wyatt Hoback³, and Joseph Knoll¹. ¹USDA-ARS Crop Genetics and Breeding Research, Tifton, GA; ²USDA-ARS Peanut and Small Grains Research Unit, Stillwater, OK; ³Entomology & Plant Pathology, Oklahoma State University, Stillwater, OK.
- RP-5 Trichome-dependent differences in insecticide efficacy against the sweetpotato whitefly in cotton and cantaloupe crops in Georgia. **Paulo S. Gimenez Cremonez**¹, Arash Kheirodin¹, Jermaine D. Perier¹, Mirela M. Nagaoka¹, Albertha J. Parkins¹, Alvin M. Simmons², Jason M. Schmidt¹, and David G. Riley¹. ¹Department of Entomology, University of Georgia, Tifton, GA; ²USDA-ARS Vegetable Laboratory, Charleston, SC.
- RP-6 Evaluation of planting date and a supplemental foliar spray on ThryvOn cotton as a management strategy for tobacco thrips. **Sarah Hobby**, Chandler Rowe, and Phillip Roberts. Department of Entomology, University of Georgia, Tifton, GA.
- RP-7 Improving forests for pollinators: Three case studies. **Scott Horn**, Michael D. Ulyshen, and Jim Hanula. USDA Forest Service, Athens, GA.
- RP-8 Evaluation of *Beauveria bassiana* on citrus Leafminer (*Phyllocnistis citrella*). **Sydni Ingram**¹ and Simerjeet Virk². ¹University of Georgia Cooperative Extension, Thomas County, Thomasville, GA; ²Department of Crop and Soil Sciences, University of Georgia, Tifton, GA.
- RP-9 Won't somebody please think of the children?! Utilizing mating disruption to manage San Jose scale. **Brett R. Blaauw**. Department of Entomology, University of Georgia, Athens, GA.
- RP-10 Field results: Using a virus to control hickory shuckworm. **Colin Wong**¹, David Shapiro-Ilan¹, Ted Cottrell¹, Angel Acebes-Doria². ¹USDA-ARS Southeastern Fruit and Tree Nut Research Station, Byron, GA; ²USDA-ARS Daniel K. Inouye U.S. Pacific Basin Agricultural Research Center, Hilo, HI.

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1998	Sturgis McKeever	2011	Beverly Sparks
2000	Rudolph T. Franklin	2011	Robert McPherson
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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		



PROGRAM DETAILS

BEE COVER PHOTO BY **BRETT R. BLAAUW**
ART & DESIGN BY **MICHELLE N. TREMBLAY**

PAST MEETINGS OF THE GES

Meeting Dates

Location

2 April 1937	<i>Agricultural Experiment Station, Experiment</i>
1 April 1938	<i>Georgia Institute of Technology, Atlanta</i>
28-30 Oct. 1938	<i>Okefenokee Swamp, Fargo</i>
6 May 1939	<i>Georgia State College for Women, Milledgeville</i>
14 October 1939	<i>Agricultural Experiment Station, Experiment</i>
6 April 1940	<i>Emory University, Atlanta</i>
7 November 1940	<i>Agricultural Experiment Station, Experiment</i>
5 April 1941	<i>Wesleyan College, Macon</i>
4 April 1942	<i>Emory University, Atlanta</i>
21 March 1944	<i>Piedmont Hotel, Atlanta</i>
29 March 1946	<i>Agricultural Experiment Station, Experiment</i>
10 April 1948	<i>Baldwin Hall-UGA, Athens</i>
30 April 1949	<i>Jekyll Island Hotel, Jekyll Island</i>
3-4 March 1950	<i>American Legion, Fort Valley</i>
9-10 March 1951	<i>Abraham Baldwin Agricultural College, Tifton</i>
7-8 March 1952	<i>Savannah Hotel, Savannah</i>
6-7 March 1953	<i>Hotel Dempsey, Macon</i>
12-13 March 1954	<i>Ida Dunlap Little Library -UGA, Athens</i>
4-5 March 1955	<i>Radium Springs Hotel, Albany</i>
8-9 March 1956	<i>Manger Hotel, Savannah</i>
19-20 March 1957	<i>Rock Eagle 4-H Club Center, Eatonton</i>
5-7 March 1958	<i>King and Prince Hotel, St. Simons Island</i>
4-5 March 1959	<i>Radium Springs Hotel, Albany</i>
30-31 March 1960	<i>New Chemistry Building-UGA, Athens</i>
8-9 March 1961	<i>Wanderer Motel, Jekyll Island</i>
20-22 March 1962	<i>Radium Springs Hotel, Albany</i>
20-22 March 1963	<i>Holiday Inn, Pine Mountain</i>
26-27 March 1964	<i>Corsair Motel, Jekyll Island</i>
9-11 March 1965	<i>Downtown Holiday Inn, Atlanta</i>
23-25 March 1966	<i>Stuckey's Carriage Inn, Jekyll Island</i>
21-23 March 1967	<i>Manger Hotel, Savannah</i>
19-21 March 1968	<i>Elks Club, Albany</i>
18-20 March 1969	<i>Stuckey's Carriage Inn, Jekyll</i>
17-19 March 1970	<i>Downtowner Motor Inn, Albany</i>
16-18 March 1971	<i>DeSoto Hilton, Savannah</i>
15-17 March 1972	<i>King and Prince Hotel, St. Simons Island</i>
28-30 March 1973	<i>Macon Hilton Hotel, Macon</i>
13-15 March 1974	<i>Holiday Inn, Athens</i>
19-21 March 1975	<i>King and Prince Hotel, St. Simons Island</i>
17-19 March 1976*	<i>DeSoto Hilton, Savannah</i>
16-18 March 1977	<i>Downtowner Motor Inn, Albany</i>
15-17 March 1978	<i>King and Prince Hotel, St. Simons Island</i>

PAST MEETINGS OF THE GES

21-23 March 1979*	<i>Quality Inn, Hilton Head Island, SC</i>
19-21 March 1980	<i>Ramada Inn West, Macon</i>
18-19 March 1981	<i>Rural Development Center, Tifton</i>
24-26 March 1982	<i>History Village Inn & Conference Center, Athens</i>
23-25 March 1983	<i>Downtowner Motor Inn, Albany</i>
21-23 March 1984	<i>Buccaneer Motor Lodge, Jekyll Island</i>
20-22 March 1985	<i>Rural Development Center, Tifton</i>
24-26 March 1986*	<i>Sheraton Resort & Country Club, Savannah</i>
18-20 March 1987	<i>Quality Inn- Buccaneer, Jekyll Island</i>
23-25 March 1988	<i>Georgia Southern Col., Statesboro</i>
22-24 March 1989	<i>Univ. of Georgia, Athens</i>
28-30 March 1990	<i>Unicoi Lodge & Conference Center, Helen</i>
27-29 March 1991	<i>Callaway Gardens, Pine Mountain</i>
25-27 March 1992	<i>Clarion Resort Buccaneer, Jekyll Island</i>
24-26 March 1993	<i>Georgia Center for Continuing Ed., Athens</i>
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27-29 March 1996	<i>Holiday Inn-Midtown, Savannah</i>
16-17 April 1997	<i>Unicoi State Park, Helen</i>
16-17 April 1998	<i>Buccaneer Motor Lodge, Jekyll Island</i>
14-16 April 1999	<i>Rural Development Center, Tifton</i>
6-7 April 2000	<i>Georgia Center for Continuing Education, Athens</i>
4-6 April 2001*	<i>Georgia Mountain Center, Gainesville</i>
3-5 April 2002	<i>Georgia Southern University, Statesboro</i>
2-4 April 2003	<i>Holiday Inn, Jekyll Island</i>
31 March - 2 April 2004	<i>Callaway Gardens, Pine Mountain</i>
30 March - 1 April 2005	<i>Georgia Center for Continuing Education, Athens</i>
29-31 March 2006	<i>Holiday Inn, Jekyll Island</i>
16-18 May 2007	<i>Georgia Center for Continuing Education, Athens</i>
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6-8 October, 2010*	<i>Hickory Knob State Park, McCormick, SC</i>
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9-11 April 2014	<i>James H. Rainwater Conference Center, Valdosta</i>
9-10 April 2015	<i>Villas by the Sea, Jekyll Island</i>
6-8 April 2016	<i>Callaway Gardens, Pine Mountain</i>
5-7 April 2017	<i>Villas by the Sea, Jekyll Island</i>
4-6 April 2018*	<i>Unicoi State Park and Lodge, Helen</i>
10-12 April 2019	<i>Lake Blackshear Resort & Golf Club, Cordele</i>
13-15 April 2022	<i>Villas by the Sea, Jekyll Island</i>

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PRESENTER LIST

STUDENT SPEAKERS

ADHIKARI, ROSAN	THURSDAY, APRIL 20	3:20 PM
AL BAKI, MD ABDULLAH	THURSDAY, APRIL 20	3:00 PM
ARSHAD, REHAN	THURSDAY, APRIL 20	3:30 PM
BERRY, JENNIFER	THURSDAY, APRIL 20	4:00 PM
CODOD, CLARENCE	THURSDAY, APRIL 20	2:40 PM
CORSETTI, KAREN A	THURSDAY, APRIL 20	1:30 PM
CUTCHIN, GARRETT	THURSDAY, APRIL 20	10:30 AM
DITTMAN, TRISTEN	THURSDAY, APRIL 20	11:40 AM
EDELKIND-VEALEY, MR	THURSDAY, APRIL 20	11:50 AM
GHIMIRE, MAHESH	THURSDAY, APRIL 20	11:10 AM
GOLDMAN, MICHAEL	THURSDAY, APRIL 20	2:00 PM
IBIYEMI, DANIEL	THURSDAY, APRIL 20	4:10 PM
JAISWAL, AASTHA	THURSDAY, APRIL 20	10:20 AM
KENNETT, SAMANTHA	THURSDAY, APRIL 20	1:50 PM
MARTINS, JÉSSICA LA	THURSDAY, APRIL 20	3:50 PM
NAGAOKA, MIERLA M.	THURSDAY, APRIL 20	11:20 AM
NEUPANE, SUBIN B	THURSDAY, APRIL 20	4:30 PM
NOWICKI, RENEE	THURSDAY, APRIL 20	1:40 PM
PANDEY, SUDEEP	THURSDAY, APRIL 20	3:40 PM
PARKINS, ALBERTHA	THURSDAY, APRIL 20	11:00 AM
PERIER, JD	THURSDAY, APRIL 20	3:10 PM
RENTZ, CALEY	THURSDAY, APRIL 20	11:30 AM
SENF, REBECCA	THURSDAY, APRIL 20	10:50 AM
SINGH, GURJIT	THURSDAY, APRIL 20	2:50 PM
STOLTZ, NICK	THURSDAY, APRIL 20	10:40 AM
TOLEDO, PEDRO	THURSDAY, APRIL 20	4:40 PM
WILLIAMSON, ZIA	THURSDAY, APRIL 20	4:20 PM

REGULAR MEMBER SPEAKERS

ACHARYA, RAJENDRA	FRIDAY, APRIL 21	9:50 AM
BARMAN , APURBA	FRIDAY, APRIL 21	9:40 AM
BRAMAN , KRIS	FRIDAY, APRIL 21	8:05 AM
BUNTIN , G DAVID	FRIDAY, APRIL 21	11:40 AM
CLEM, SCOTT	FRIDAY, APRIL 21	8:45 AM
COTTRELL, TED E	FRIDAY, APRIL 21	12:20 PM
DEPLANE , KEITH	FRIDAY, APRIL 21	8:25 & 10:50 AM
GIBSON, JOSH D	FRIDAY, APRIL 21	12:00 PM
HARRIS-SHULTZ, KAREN	FRIDAY, APRIL 21	10:40 AM

REGULAR MEMBER SPEAKERS - CONTINUED

HINKLE, NANCY C	FRIDAY, APRIL 21.	12:10 PM
LI, YINPING	FRIDAY, APRIL 21.	11:00 AM
MARTINS, ELEM FIALHO	FRIDAY, APRIL 21.	11:50 AM
MCCRAVY, KENNETH W	FRIDAY, APRIL 21.	9:05 AM
POOLE, EMILEE M.	FRIDAY, APRIL 21.	10:30 AM
REEVES, BENJAMIN	FRIDAY, APRIL 21.	11:20 AM
RILEY, DAVID G	FRIDAY, APRIL 21.	11:30 AM
SHAPIRO-ILAN, DAVID	FRIDAY, APRIL 21.	10:10 AM
SIAL, ASHFAQ.	FRIDAY, APRIL 21.	11:10 AM
SIMMONS, ALVIN	FRIDAY, APRIL 21.	10:00 AM
SLUSHER, EDDIE K.	FRIDAY, APRIL 21.	10:00 AM
SUTTON, KEMPER	FRIDAY, APRIL 21.	11:10 AM
WU, SHAOHUI	THURSDAY, APRIL 21.	10:20 AM

STUDENT POSTERS

ARSHAD, REHAN.	STUDENT POSTER (SP-15)
BARBOSA, SABRINA	STUDENT POSTER (SP-19)
BRENNON, KAY'LA	STUDENT POSTER (SP-3)
CHON, KATY.	STUDENT POSTER (SP-8)
CORNISH, J WINSTON	STUDENT POSTER (SP-9)
DAS, SHOBHAN	STUDENT POSTER (SP-3)
FITZPATRICK, RAYMOND.	STUDENT POSTER (SP-14)
GARLAND, KAITLYN	STUDENT POSTER (SP-7)
GRANT, JOSHUA	STUDENT POSTER (SP-13)
KHAN, DILAWAR	STUDENT POSTER (SP-20)
MCGINN, SAM	STUDENT POSTER (SP-5)
MEISSNER, SARA.	STUDENT POSTER (SP-16)
PADGETT, GRACE	STUDENT POSTER (SP-17)
PANDEY, SUDEEP.	STUDENT POSTER (SP-4)
PEAVY, MALCOLM C	STUDENT POSTER (SP-21)
ROESKE, ISABELLA	STUDENT POSTER (SP-1)
SCHEYER, THOMAS.	STUDENT POSTER (SP-11)
SINGH, GURJIT	STUDENT POSTER (SP-12)
WILLIAMSON, ZIA.	STUDENT POSTER (SP-18)
WOLFF, THERESA	REGULAR POSTER (SP-10)
WOOLRIDGE, NICOLE	REGULAR POSTER (SP-4)

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HORN, SCOTT	REGULAR POSTER (RP-7)
INGRAM, SYDNI.	REGULAR POSTER (RP-8)
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SIAL, ASHFAQ	REGULAR POSTER (RP-1)
WONG, COLIN	REGULAR POSTER (RP-10)

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NOTES

4
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