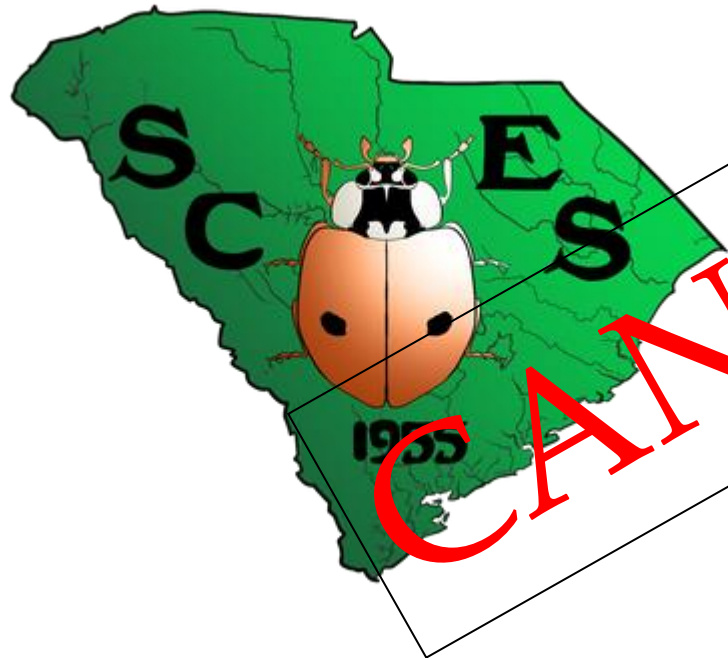


The 70th Annual Meeting
of the
**SOUTH CAROLINA
ENTOMOLOGICAL
SOCIETY**



*Osher Lifelong Learning Center,
Clemson, South Carolina
October 3–4, 2024*

SCentsoc.org

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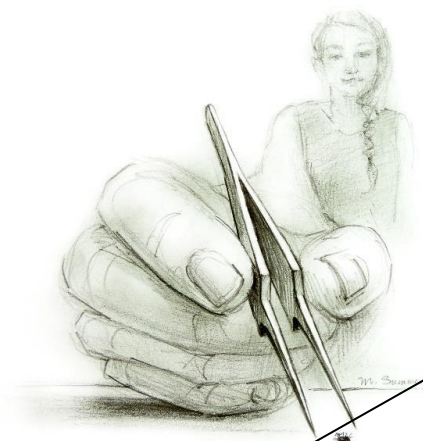
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1997 Kristen van den Meiracker	

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2023 Niko Artley

Meeting Agenda October 3, 2024

- 12:00 – 12:30** Executive Committee Meeting
- 12:30 – 1:00** Meeting Registration
- 1:00 – 1:45** Welcome and Business Meeting
- 1:45 – 2:45** Keynote Speaker (Dr. Gloria McCutcheon)
- 2:45 – 3:45** Poster Session (OLLI Library) (2 Non-student, 16 Student)

Non-Student Posters (2)

Contending with a perennial pest: Developing biologically based strategies for the diamondback moth (*Plutella xylostella*) in the United States. **Tom Bilbo** (tbilbo@clemson.edu). Tom Bilbo¹, Amna Ghani¹, James Walgenbach¹, Taylor Sidmore³, and Tom Kuhar³. ¹Department of Plant & Environmental Sciences, Clemson University, Charleston, SC ²Department of Entomology & Plant Pathology, North Carolina State University, Raleigh, NC ³Department of Entomology, Virginia Tech University, Blacksburg, VA.

Begomovirus-induced gene expression patterns in an invasive species of the *Bemisia tabaci* complex (Homoptera: Aleyrodidae). **Zachary Lahey** (zachary.lahey@usda.gov). Zachary Lahey, Alvin M. Simmons, Sharon A. Andreason, United States Department of Agriculture, Agricultural Research Service, U. S. Vegetable Laboratory, Charleston, South Carolina.

Student Posters (16)

Gonadal Growth Comparison in Larval *Helicoverpa Zea*. **Theodore Athanas** (tathana@g.clemson.edu). Theodore Athanas, Alexis Yoh, Matthew Turnbull. Clemson University.

Per Os infectivity of a sexually transmitted virus in Corn earworms and gene expression analysis of *PIFs*. **Jabez Battu** (jbattu@clemson.edu). Jabez Battu, Matthew Turnbull, Department of Biological Sciences, Clemson University.

Is It Scrub Typhus or *Rickettsia parkeri*? **Avie Beach** (acbeach@email.sc.edu). Avie Beach¹, Katherine Brown¹, Emily Pickle¹, Melissa Nolan². ¹Arnold School of Public Health, University of South Carolina, ²Departments of Medicine & Pediatrics, Division of Allergy and Immunology, University of North Carolina.

Comparative Biomechanics of Insect Antennae. **Megan Bishoff** (mbishof@clemson.edu). Material Science Department, Clemson University.

Longer and Earlier Flight Seasons for Moths over 50 Years' Time. **Allison Fletcher** (akf4@email.sc.edu). University of South Carolina.

Presence of *Corrodia bissetti* in South Carolina. **Eden Frick** (efrick@email.sc.edu). Eden Frick¹, Katherine Brown¹, Emily Pickle¹, Melissa Nolan². ¹Arnold School of Public Health, University of South Carolina, ²Departments of Medicine & Pediatrics, Division of Allergy and Immunology, University of North Carolina.

Omnivory Benefits Protein Deficient Caterpillars. **Oliver Malatich** (malatich@email.sc.edu). LoPresti Lab, University of South Carolina.

Hemolymph flow and its role in flexing of insect antennae. **Lucas Marsh** (lmarsch@clemson.edu). Material Science and Engineering Department, Clemson University.

Leaf to it to the herbivores: Effect of species identity and time since fire on insect herbivory in two resprouting plant species. **Amber Mercer** (mercera3@mailbox.winthrop.edu). Amber L. Mercer, Sabrina M. Rocha, Nicholas R. Stalford, Jennifer L. Schafer. Department of Biology, Winthrop University.

Arboviral and mosquito disease surveillance in South Carolina's urban centers. **Ahalya Muraleedharan** (ahalya@email.sc.edu). University of South Carolina.

Rickettsia tillamookensis and *tameri* cases in South Carolina. **Sarah Neville** (nevilles@email.sc.edu). Sarah Neville, Katherine Brown, Emily Pickle, Melissa Nolan. Arnold School of Public Health, University of South Carolina, College of Veterinary Medicine, North Carolina State University.

October 4, 2024

Xylella fastidiosa insect vector abundance and viruliferous status on South Carolina small fruit crop farms. **Alexandra Ratay** (aratay@clemson.edu). Alexandra Ratay, Elizabeth Cieniewicz. Department of Plant and Environmental Sciences, Clemson University.

Floral traps and arthropod attacks: Does stickiness function as a defense in tarflower (*Bejaria racemosa*)? **Sabrina M. Rocha** (rochas2@mailbox.winthrop.edu). Sabrina M. Rocha, Jennifer L. Schafer, Amber L. Mercer, Nicholas R. Stalford. Department of Biology, Winthrop University.

Prevalence of the sterilizing virus HzNV-2 in *Helicoverpa zea*. **Md Naim Uddin** (mdnaimu@clemson.edu). Uddin, Olsakovsky, Turnbull. Department of Biological Sciences, Clemson University.

Container Mosquito Oviposition Activity as a Function of Urbanization in Guilford County, NC. **Tyler Wright** (twright3@highpoint.edu). Tyler D. Wright¹, Maggie Garr¹, Bella Perez², A. Daniel Greene¹. ¹Department of Biology, High Point University; ²Northwest Guilford High School

Analysis of Direct Repeat Containing Open Reading Frames in The Nudivirus HzNV-2. **Alexis Yoh** (Ayoh@clemson.edu). Alexis Yoh, Alisa Prasertphon, Matthew W Turnbull. Department of Biological Sciences Clemson University.

3:45 – 5:45 Tour of the Clemson University Arthropod Collection (Option 1)

Insect Walk and Photographs in the SC Botanical Garden (Option 2)

6:00 – 7:45 Cookout at the Cherry Farm Insectary

7:45 – 9:00 Light Trapping at the Cherry Farm (for those who wish to participate)

8:00 – 8:15 Announcements

8:15 – 9:15 Invasive Yellow Legged Hornet Eradication Efforts in SC, Brad Cavin, Department of Plant Industry, Clemson University

9:15 – 9:30 Sustainable Management of Turf and Ornamental Pests in South Carolina, Dr. Zee Ahmed, Pee Dee Research and Education Center, Clemson University

9:30 – 9:48 Break

Non-Student Papers / Presentations (6)

9:48 Transmission Dynamics and Phylogenetics of West Nile virus in Richland County, SC – A 2023 Investigation. **Kyndall Braumuller** (kyndallb@email.sc.edu). University of South Carolina, Department of Epidemiology and Biostatistics.

10:00 Treehoppers of the Carolinas (Hemiptera: Membracidae). **Dawn Flynn** (Dawn.Flynn@gastonianc.gov). Adjunct Curator of Entomology, Schiele Museum, Gastonia, NC.

10:12 Surveillance Study of Avian Keds (Diptera:Hippoboscidae) and Related Pathogens at a South Carolina Zoo. **Katherine Brown** (kmb41@email.sc.edu). Katherine Brown, MPH¹, Martha Weber, MPH, DVM², Kia Zellers, MS¹, Wayne Knee, PhD³, Michael Skvarla, PhD⁴, Emily Owens Pickle, MPH¹, Melissa Nolan, MPH, PhD¹. ¹Arnold School of Public Health, University of South Carolina¹ Riverbanks Zoo and Garden² Canadian National Collection of Insects, Arachnids and Nematodes Agriculture and Agri-Food Canada³ Department of Entomology, Penn State University⁴.

CANCELLED

10:24 Improving Resistance to Whiteflies (Hemiptera: Aleyrodidae) by Wild *Citrullus colocynthis* Versus Watermelon Cultivars. **Petrina McKenzie-Reynolds** (Petrina.reynolds@usda.gov). Petrina McKenzie-Reynolds, Alvin M. Simmons, Amnon Levi, Isiaka Owolabi, USDA-ARS, U.S. Vegetable Laboratory, Charleston, SC.

10:36 Biosynthetic Strategies in Plant Defense: Assessing the impact of Plant Chemicals on Natural Enemies of Whiteflies. **Isiaka A. Owolabi** (isiaka.owolabi@uga.edu). Isiaka A. Owolabi¹, Petrina McKenzie-Reynolds², Gaelen R. Burke³, Amnon Levi², Alvin M. Simmons². ¹Department of Entomology, University of Georgia, Charleston, SC, 29414, USA ²USDA-ARS, U.S., Vegetable Laboratory, Charleston, SC 29414, USA ³Department of Entomology, University of Georgia, GA 30602 Athens, USA.

10:48 Whiteflies in Changing Climates, **Alvin M. Simmons** (alvin.simmons@usda.gov). Alvin M. Simmons¹ and Shaaban Abd-Rabou² ¹USDA-ARS, U.S. Vegetable Laboratory, Charleston, SC, ²Ministry of Agriculture, ARC, Plant Protection Research Institute, 7 Nadi El-Seid, Dokki, Giza, Egypt.

Student Papers / Presentations (6)

11:00 Which moths are ear-resistant? Exploring the distribution & dynamics of *Dicrocheilus* ear mites in noctuid moths. **Allison Fletcher** (akf4@email.sc.edu). University of South Carolina.

11:12 Selecting insectary plants for improving beneficial insects and pest management in Southern Vegetable Production. **Pragya Kiju** (pkiju@clemson.edu). Clemson University.

11:24 Effect of time since fire on allocation to carnivory and arthropod trapping in pink sundew (*Drosera capillaris*). **Nicholas R. Stalford** (stalfordn2@mailbox.winthrop.edu). Nicholas R. Stalford, Sabrina M. Rocha, Amber L. Mercer, Jennifer L. Schafer. Department of Biology, Winthrop University.

11:36 Optimizing biological control of the Diamondback moth (*Plutella xylostella*): Evaluating the seasonality of its parasitoids and their impact in the Southeastern United States. **Amma Ghani** (aghani@clemson.edu). Amma Ghani, Tom Bilbo. Department of Plant and Environmental Sciences, Clemson University.

11:48 Refining Treatment Thresholds for Insect Pests in South Carolina Soybeans using Simulated Injury and Natural Populations. **Adam Whitfield** (aywhitf@g.clemson.edu). Adam Whitfield, Jeremy Greene, Francis Reay-Jones, Kendall Kirk, Michael Plumblee. Edisto Research and Education Center, Clemson University.

12:00 Epigeal arthropod community dynamics as a function of urbanization in Guilford County, NC. **Maggie Garr** (m_garr@highpoint.edu). Maggie Garr¹, Tyler D. Wright¹, Bella Perez², A. Daniel Greene¹. ¹Department of Biology, High Point University, High Point, NC; ²Northwest Guilford High School, Greensboro, NC.

12:30 – 1:45 Awards Luncheon

CANCELLED

