



HEXAPOD HERALD

March 17, 2017

Volume 1, Issue 1

And the Winner is . . . As you can see by the title of the



Nick Stewart accepts award—Feb 2017

Newsletter, the Hexapod Herald has been overwhelmingly selected as this department's newsletter name.

Recently the Editor of this newsletter ran a contest to name the newsletter. There were over 80 entries including The Insect Insider, The Bug Bulletin and Bug Bytes (all top contenders). Because there was such great turnout of suggestions, Dr. Braman, and her committee, opened up the voting to everyone. A survey revealed that the most popular winner was the Hexapod Herald. Thanks to (names are listed in no particular order) Donna L Smith, Sasha Kay, Samantha Thompson, Brett Blaauw, Sherry Wrona, Lisa M. Ames, Richard T Mayer, Brian Little, Paul Guillebeau, Jena Johnson, Conor Fair, Elmer Gray, Lisa M. Ames, Seth Whitehouse, Teri Berryman, David Griffin, Glen Raines, Paul Guillebeau, Joe McHugh and Nick Stewart for all of the clever contributions.

Nick Stewart, Research Technician III is the winner of the contest. Nick works in the Blaauw Peach Entomology Lab.

Nick was presented a gift bag of several items with an entomological theme. When asked how he came up with the name, he said "Dr. Blaauw and I were brainstorming on the drive back from Tifton the last day of the contest. I sent in my two best choices and hoped for the best!" Thanks to Nick for participating. •

From the desk of S. Kristine Braman ...

Welcome to our first issue of the UGA Department of Entomology's Newsletter the "Hexapod Herald". I write today with great enthusiasm and optimism for the Insect Science that we engage in that literally impacts every aspect of human life. I am often asked what motivated my interest in insects and entomology. My profound interest in the living world met the perfect match in entomology courses that were required of all forest biology majors. I soon switched from a zoology to an entomology emphasis and continue to be fascinated with the beauty, power and potential of insects to affect our well-being.

In this inaugural issue of our newsletter, I am sure you will see and share my pride in our faculty, staff and students as you view some of their accomplishments. Our 131 students (22 PhD, 22 MS and 8 MPPPM), 27 Entomology and 52 Applied Biotechnology undergraduates had a good year in 2016. In fact, 13 of our graduate students received 21 awards, recognitions, scholarships or grants. *Continued on page 2*

From Wikipedia: **Hexapoda** is the subphylum Hexapoda (from the Greek for six legs) constitutes the largest number of species of arthropods and includes the insects.

Inside this issue

Alumni News	5
Calendar reminders	16
Degrees Conferred.....	6
Graduate Student Awards.....	4
Faculty Highlight	15
Staff Highlight	7
Student Spotlight	13
Seminar Schedule	3

Special points of interest

- Faculty meeting photos—page 10, 14 & 15
- Serendipity by Robert W. Matthews, *Emeritus*
- 2016 Faculty accomplishments are throughout the publication





Dr. Dan Suiter, Extension Entomologist & Program Leader

From the desk of S. Kristine Braman ... *continued*

Our faculty retreat this month focused on the future of our department and our contributions to the discipline. The grand challenges facing our world can be addressed in many ways by gaining a better understanding of insects and their complex roles in our environment. I hope you will take a minute to scan our publications which reflect the breadth and balance of our programs here at UGA Entomology.

We were also reminded of the technological advances that allow us to reach more broadly with our educational efforts if we can meet the continuing challenge to adopt rapidly changing tools. A great example of this can be seen in Dr. Dan Suiter's webinar series "Getting the Best of Pests." Dr. Suiter has developed, in collaboration with the Center for Urban Agriculture, an online, live, interactive training program that allows Urban Pest Management and Green Industry professionals to obtain continuing education credits (CEUs) virtually anywhere. Webinars are now serving well over 550 attendees per session! Check out the website <https://gtbop.com/> for more information.

***"Together, even the smallest can achieve the greatest goal."
- A Bug's Life***

Eat More Honey

Support our UGA Bee Lab research by purchasing some of our private-label, pure, raw honey. It is available in several sizes, including our most popular size the 48 ounce jar (larger than a quart size). It is available from three convenient locations:

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54 Greensboro Highway
Watkinsville, GA 30677

Cofer's Home and Garden
1145 Mitchell Bridge Road
Athens, GA 30606

UGA Entomology Department
413 Biological Sciences Building
120 Cedar Street
Athens, GA 30602



Absolutely engrossing

It's Tuesday at 11 a.m., and a rapt classroom of students is gazing up at huge pictures of rashes and macroscopic photos of the insects that caused them.

It's gross, it's squirm-inducing and it's absolutely engrossing. It's just another day in "Medical Entomology," a course co-taught by UGA entomology professor Darold Batzer.

Over the years, his research has focused on using wetland invertebrate populations to monitor wetland ecosystem health, cataloging the change in populations after outside impacts like floods, logging or drought.

One of his current projects is an EPA-funded study of the benefits of preserving wetlands on working farms and whether preserving wetlands helps increase the population of beneficial insects on farmland. He is currently working with an interdisciplinary team of researchers ranging from forestry to forage science at UGA's Iron Horse Farm on Georgia Highway 15.

Original published date is January 17, 2017 from UGA Feature Storeis web page. To read the rest of the story about Dr. Batzer and his absolutely engrossing course go to: http://uga.edu/about_uga/profile/absolutely-engrossing/



Dr. Darold Batzer introduces students to small, but powerful, world of insects.



Lund Club members represent Entomology in Athens Christmas Parade—December 2016

Lund Club Parades

Lund Club members under the supervision of Dr. Paul Guillebeau participated in the Downtown Athens Parade of Lights. The “float” was an oversized preying mantis with moving appendages. The exaggerated bug was powered by Lund Club members and enticed throughout the parade route by a matching oversized red flower.

Congratulations to the Lund Club for winning a float prize. •

Publications - Refereed Journal Articles

All, J., Roberts, P., & Kemp, D. (2016). Seed Treatment and Surface Application of Insecticides for Suppression of *Megacopta cribraria* in Soybean, 2013: Table 1. *Arthropod Management Tests*, 41(1), F4. doi:10.1093/amt/tsv136

Amaral, D. S. S. L., Venzon, M., dos Santos, H. H., Sujii, E. R., Schmidt, J. M., & Harwood, J. D. (2016). Non-crop plant communities conserve spider populations in chili pepper agroecosystems. *Biological Control*, 103, 69-77. doi:10.1016/j.biocontrol.2016.07.007

Bitra, K., Burke, G. R., & Strand, M. R. (2016). Permissiveness of lepidopteran hosts is linked to differential expression of bracovirus genes. *VIROLOGY*, 492, 259-272. doi:10.1016/j.virol.2016.02.023

Blaauw, B. R., Jones, V. P., & Nielsen, A. L. (2016). Utilizing immunomarking techniques to track *Halyomorpha halys* (Hemiptera: Pentatomidae) movement and distribution within a peach orchard. *PeerJ*, 4, e1997. doi:10.7717/peerj.1997

Blount., Roberts., Toews., Gardner., All., Davis, J., & Buntin, G. D. (2016). Season population dynamics of *Megacopta cribraria* (Hemiptera: Plataspidae) in kudzu and soybean, and implication for insecticidal control in soybean. *Journal of Economic Entomology*, 110 (1), 157-167. doi:10.1093/jee/tow281

Bowling, R. D., Brewer, M. J., Kerns, D. L., Gordy, J., Seiter, N., Elliott, N. E., Buntin GD, Way MO, Royer TA, Biles S, & Maxson, E. (2016). Sugarcane Aphid (Hemiptera: Aphididae): A New Pest on Sorghum in North America. *Journal of Integrated Pest Management*, 7(1), 12. doi:10.1093/jipm/pmw011

Bray, A. L., Lail, L. A., All, J. N., Li, Z., & Parrott, W. A. (2016). Phenotyping Techniques and Identification of Soybean Resistance to the Kudzu Bug. *CROP SCIENCE*, 56(4), 1807-1816. doi:10.2135/cropsci2015.09.0536

Brill, N.L., R.L. Brandenburg, M.R. Abney (2016). Effect of soil moisture on *Plectris aliena* (Coleoptera: Scarabaeidae) oviposition. *Florida Entomologist*. 99, 574-575. Doi:10.1653/024.099.0342

Brill, N.L., C.E. Sorenson, M.R. Abney. (2016). Freeze susceptibility and supercooling temperature of *Plectris aliena* (Coleoptera: Scarabaeidae) third instars. *Journal of Entomological Science*. 51(3) 252-255. Doi:10.18474/JES15-42.1

Burke, G. R. (2016). Analysis of Genetic Variation across the Encapsidated Genome of *Microplitis demolitor* Bracovirus in Parasitoid Wasps. *PLOS ONE*, 11(7). doi:10.1371/

Seminar Schedule

The Entomology Department seminar series is held each Fall and Spring semester. This Spring, our seminars are scheduled on Mondays at 11:15 am in the 404A lecture hall in the Biological Sciences building. Upcoming Seminars are:

March 27— Dr. Amy Toth
Assistant Professor, Department of Ecology, Evolution, and Organismal Biology & Department of Entomology, Iowa State University.

Title: "Climbing the social ladder: comparative genomics of social evolution in wasps and bees"

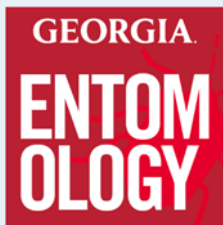
Apr 3—Dr. Becky Trout-Fryxell

Assistant Professor, Entomology and Plant Pathology, University of Tennessee
"Rickettsiosis in the southeastern United States may be linked to a tick undergoing range expansion"

For current schedule details, please click on the "Seminars" heading under "About" on our web page: <http://www.caes.uga.edu/departments/entomology/>

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We now have logos available for your correspondence, publications, social media and what-not. Ask us for the link to the Entomology department logos. CAES logos and instructions are available for download at caes.uga.edu/unit/occs



Department of Entomology
College of Agricultural & Environmental Sciences
UNIVERSITY OF GEORGIA

Help Wanted

Hexapod Herald has openings for the position of Assignment Reporter. If you have an interest in writing about Entomology news, and would like to volunteer, please contact the Chief Editor, Dr. Kris Braman, at kbraman@uga.edu or 706-542-2816.

Graduate Student Awards

Arsenault, Sam (PhD) - Innovative & Interdisciplinary Research Grant (\$1000). Best Graduate Student Poster Winner at 43rd Annual Southeastern Population Ecology & Evolutionary Genetics Meeting, Madison, FL, October 2016.

Bush, Bryana (PhD) - Student Research Grant, Society of Wetland Scientists, \$2000.

Chen, Yi-An (MS) – 2016 Georgia Pest Control Association (GPCA) Bob Russell Scholarship (\$1000).

Fair, Conor (PhD) – 2016 ICE Convention, 1st Place in the Graduate Poster Competition, Orlando, FL (\$75)

Harrison, Ruby (MS) – 2016 UGA Linnaean Team 2nd Place in National Championship at Entomology Without Borders, XXV International Congress of Entomology / 1st Place Poster Competition, 2016 International Congress of Entomology, Orlando

Hounkpati, Brad (PhD) -2016 H. H. Ross Memorial Fund Grant (travel expenses to ICE Convention, Orlando, FL)

Knight, Ian (PhD) – 2016 UGA Linnaean Team 2nd Place in National Championship at Entomology Without Borders, XXV International Congress of Entomology Orlando

Kraft, Laura (MS) - 2016 UGA Linnaean Team 2nd Place in National Championship at Entomology Without Borders, XXV International Congress of Entomology Orlando

McElrath, Thomas (PhD) – 2017 H. H. Ross Memorial Fund Grant (publication charges); 2016 Outstanding PhD Student of the Year. 2016 UGA Linnaean Team 2nd Place in National Championship at Entomology without Borders, XXV International Congress of Entomology, Orlando, FL.

Phelan, Brent (MS) – 2016 Bayer Animal Health Travel Grant, Livestock Insect Worker's Conference, OK (\$550).

Portier, William Trey (MS) – 2017 Beltwide Cotton Conference (\$250).

Rich, Annie (MS) – 2017 Bayer Scholarship (shadowing a Bayer Representative). 2016 Bayer Health Travel Grant, Livestock Insect Worker's Conference, OKC, OK (\$550). / 2016 UGA Linnaean Team 2nd Place in National Championship at Entomology Without Borders, XXV International Congress of Entomology, Orlando, FL. / 2016 Harry Hoogstraal Fellowship, Ohio State Univ. Summer Acarology Program (\$350).

Whitehouse, Tyler Seth (MS) – 2016 Southern SARE Graduate Student Grant (\$10,849). 2016 Georgia Organics Conference Scholarship (\$210)

Publications - Refereed Journal Articles—*cont'd*

Blount., Roberts., Toews., Gardner., All., Davis, J., & Buntin, G. D. (2016). Season population dynamics of *Megacocta cribraria* (Hemiptera: Plataspidae) in kudzu and soybean, and implication for insecticidal control in soybean. *Journal of Economic Entomology*, 110 (1), 157-167. doi:10.1093/jee/tow281

Bowling, R. D., Brewer, M. J., Kerns, D. L., Gordy, J., Seiter, N., Elliott, N. E., Buntin GD, Way MO, Royer TA, Biles S, & Maxson, E. (2016). Sugarcane Aphid (Hemiptera: Aphididae): A New Pest on Sorghum in North America. *Journal of Integrated Pest Management*, 7(1), 12. doi:10.1093/jipm/pmw011

Bray, A. L., Lail, L. A., All, J. N., Li, Z., & Parrott, W. A. (2016). Phenotyping Techniques and Identification of Soybean Resistance to the Kudzu Bug. *CROP SCIENCE*, 56(4), 1807-1816.

UGA Entomology to the Smithsonian: One of many paths

By Dr. Floyd W. Shockley (Ph.D., 2009)

It is a tremendous honor to have been asked by Dr. Kris Braman to write the inaugural Alumni News article for the new UGA Entomology Department newsletter. I am humbled and at the same time intimidated to have been asked to launch this new feature, especially given the hundreds of remarkable UGA Entomology alumni doing remarkable work in research, teaching, extension, public policy, communication...the list goes on.

For those that don't know me (and really because Kris asked me to mention a bit about myself), here's a brief summary. My connection to UGA began in 2002 when I came to Athens to pursue my Ph.D. under Joe McHugh in insect systematics. After graduation, I remained at UGA a few more semesters teaching before being hired by the Department of Entomology at the Smithsonian Museum of Natural History in Washington, DC in 2010. Since January 2015, I have served as the Collections Manager for the Department, with total administrative oversight for the National Insect Collection (100,000+ primary types, 35 million+ specimens), working cooperatively with staff from three federal agencies (SI, USDA, and DoD).

As Collections Manager, my primary duties are largely administrative. Nonetheless, I remain an active researcher (20% research), presenting my research and publishing often. I am also one of the primary spokespersons for the Department and for the Museum on the importance of collections and their value as a research tool for studying biodiversity, evolution, ecology and large-scale problems like global climate change, invasive species, pests impacting agriculture, human and animal health, and impacts of



habitat modification and destruction. I am currently the President of the Entomological Collections Network, President-elect of the American Association of Zoological Nomenclature, and Vice President-Elect of the Systematics, Evolution and Biodiversity section of the Entomological Society of America. In addition, I represent the SysEB section on the ESA Science Policy Committee and the American Entomologist

editorial Board. And for the last year, I have served on the board of the CAES Alumni Association and as co-chair of the Development & Finance Committee. Don't worry, I'm not going to solicit donations to the College...this time.

Seriously though, have YOU maintained a connection to the Department, College, or the University? It's not always about giving money (though I'm sure they wouldn't turn away your check), but simply keeping up with what is going on. This newsletter should help with that. Regardless of what you are doing now, WE are the success stories our advisors will tell their current and future students about. You may be just the inspiration that a future student may need to pursue an amazing career in the entomological sciences. Did you know where your career path was going to lead? I sure didn't. And I can't wait to read YOUR story in a future newsletter! Maybe this will be first step in forming our own department alumni group! •

2016 Faculty Awards

Darold Batzer, D. W. Brooks Faculty Award for Excellence in Teaching, UGA, CAES, November 7, 2016

Mark Brown, Foreign Travel Award, August 2, 2016, UGA, OVPR

Gaelen Burke, CAES Faculty Research Mentor of the Year

David Riley, Entomological Society of America 2016 Recognition Award in Entomology, September 25, 2016

Entomological Society of America, Lanham, United States

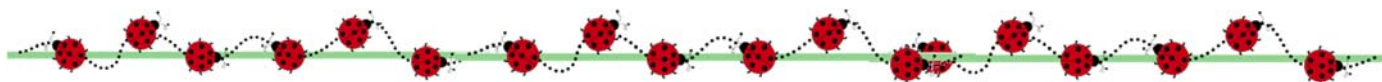
David Riley, Southeastern Branch of the Entomological Society of America 2016 Recognition Award in Entomology, March 16, 2016 Southeastern Branch of the Entomological Society of America, Entomological Society of America, Lanham, United States

Marianne Shockley, University of Kentucky Department of Entomology Garman Entomology Club Students' Choice Speaker Award, September 1, 2016, Garman Entomology Club Students' Choice Speaker Award

Ash Sial, Future Leader in IPM Award 2016: Awarded by Southern IPM Center under Friends of IPM Awards

Publications - Refereed Journal Articles—*continued*

- Brill, N.L., R.L. Brandenburg, M.R. Abney (2016). Effect of soil moisture on *Plectris aliena* (Coleoptera: Scarabaeidae) oviposition. *Florida Entomologist*. 99, 574-575. Doi:10.1653/024.099.0342
- Brill, N.L., C.E. Sorenson, M.R. Abney. (2016). Freeze susceptibility and supercooling temperature of *Plectris aliena* (Coleoptera: Scarabaeidae) third instars. *Journal of Entomological Science*. 51(3) 252-255. Doi:10.18474/JES15-42.1
- Burke, G. R. (2016). Analysis of Genetic Variation across the Encapsidated Genome of *Microplitis demolitor* Bracovirus in Parasitoid Wasps. *PLOS ONE*, 11(7). doi:10.1371/journal.pone.0158846
- Byrd, S. A., Collins, G. D., Culpepper, A. S., Dodds, D. M., Edmisten, K. L., Wright, D. L., . . . Porter, W. M. (2016). Cotton Stage of Growth Determines Sensitivity to 2,4-D. *WEED TECHNOLOGY*, 30(3), 601-610. doi:10.1614/WT-D-15-00191.1
- Byrd, S. A., Collins, G. D., Edmisten, K., Roberts, P. M., Snider, J. L., Spivey, T. A., . . . Culpepper, A. S. (2016). Leaf Pubescence and Defoliation Strategy Influence on Cotton Defoliation and Fiber Quality. *Journal of Cotton Science*, 20, 280-293
- Cazado, L. E., Casmuz, A. S., Riley, D. G., Scalora, F. S., Gastaminza, G. A., & Gabriela Murua, M. (2016). *Rhysomatus subtilis* (Coleoptera: Curculionidae) Impact in Soybean Plant Stands. *JOURNAL OF ENTOMOLOGICAL SCIENCE*, 51(1), 69-78. Retrieved from <http://gateway.webofknowledge.com/>
- Coon, K. L., Brown, M. R., & Strand, M. R. (2016). Mosquitoes host communities of bacteria that are essential for development but vary greatly between local habitats. *MOLECULAR ECOLOGY*, 25(22), 5806-5826. doi:10.1111/mec.13877





More about Hexapod Herald


The Hexapod Herald will be issued in March, July and November of each year. We ask that you share this issue with friends and neighbors, and anyone who is interested in UGA Entomology.

Due to printing & mailing costs, a limited number of hard copies will be produced & mailed. We prefer subscription is electronic.

To subscribe to the Hexapod Herald, contact us

 Write to Hexapod Herald,
413 Biological Sciences
Bldg, UGA Campus,
Athens, GA 30602

 Send e-mail to Teri
Berryman at
terib@uga.edu

 Or Call 706-542-2816.

6



Degrees Conferred

Spring 2016

Joni L. Blount, PhD, Glenwood, NM
Courtney R. Hold, PhD, Flagstaff, AZ
Maxcy P. Nolan, PhD, Watkinsville
Anita Shrestha, PhD, Bhaktapur, NP
Alice Sutcliffe, MS, Atlanta
Michasia L. Dowdy, MPPPM, Valdosta
Juan M. Torres, MPPPPM, Atlanta

Summer 2016

Thuy-Vi T. Nguyen, PhD, Athens
Matthew Doremus, MS, Macon
Laura J. Kraft, MS, Milton
Elizabeth A. Studer, MS, Athens
Rebecca L. Shirley, MPPPM, Commerce

Fall 2016

Ruchir Ruchir, PhD, Athens
Richard K. Evans, MS, Byron
Joshua A. Grant, MS,
Whitney T. Hadden, MS,
Tzu-Chin Liu, MS, Taichung
William H. Gay, MPPPM, Lincolnton
Thomas J. Harty, MPPPM, Tifton
Zachary T. Moore, MPPPPM, Enigma
Joshua C. Neuman, MPPPM, Tifton
Marissa R. Verdi, MPPPM, Webster, NY
Xing Wei, MPPPM, Yangpu District, CH
Jacob L. Wolfe, MPPPM, Watkinsville

Entomological
Society of America

<http://entsoc.org/>





Nancy Jordan, 30 year achievement!

Nancy Jordan, Business Manager II in Athens main office, achieved a 30 year anniversary with UGA.

Nancy started her new job on February 26, 1987. It was a typical Georgia February day, not too cold and not too hot, gasoline was \$.89 per gallon and a new Ford Mustang cost less than \$10,000. Dr. Arden Lea, the current department head at the time, hired Nancy as a secretary making \$5.00 per hour.

When asked how she was able to work in the same department for 30 years her reply was “I’ve seen a lot of changes, including changes in my life, but the one constant is the people. Entomology folks, faculty, staff and students are the best! And that’s why it is a great place to work!”

When asked if retirement is in the near future, her response was “I’ve thought about it but not seriously, this is such a great place to work!”

We thank Nancy for her commitment to UGA & Entomology. And appreciate all that she does for us. •

“I wish I were a glow-worm. A glow-worm’s never glum. How can you be unhappy, When a light shines out your bum.” Anonymous

Publications - Refereed Journal Articles—*continued*

Coon, K. L., Brown, M. R., & Strand, M. R. (2016). Gut bacteria differentially affect egg production in the anautogenous mosquito *Aedes aegypti* and facultatively autogenous mosquito *Aedes atropalpus* (Diptera: Culicidae). *PARASITES & VECTORS*, 9. doi:10.1186/s13071-016-1660-9

Chen, Y. -A., & Forschler, B. T. (2016). Elemental concentrations in the frass of saproxylic insects suggest a role in micronutrient cycling. *ECOSPHERE*, 7(3). doi:10.1002/ecs2.1300

Chen, Y. -A., & Forschler, B. T. (2016). Elemental concentrations in the frass of saproxylic insects suggest a role in micronutrient cycling. *ECOSPHERE*, 7(3). doi:10.1002/ecs2.1300

Crespo, A. L. B., Alves, A. P., Wang, Y., Hong, B., Flexner, J. L., Catchot, A. Buntin G. D., & Cook, D. (2016). Survival of Corn Earworm (Lepidoptera: Noctuidae) on Bt Maize and Cross-Pollinated Refuge Ears From Seed Blends. *Journal of economic entomology*, 109(1), 288-298. doi:10.1093/jee/fov272

Culbreath, A. K., Selph, A. C., Williams, B. W., Jr, K. R. C., Srinivasan, R., Abney, M. R., . . . Branch, W. D. (2016). Effects of new field resistant cultivars and in-furrow applications of phorate insecticide on tomato spotted wilt of peanut. *CROP PROTECTION*, 81, 70-75. doi:10.1016/j.cropro.2015.12.002

Dutcher, J. D., & Bactawar, B. (2016). Sampling and Control Trials for Tilehorned Prionus (Coleoptera: Cerambycidae) and Broadnecked Root Borer (Coleoptera: Cerambycidae) in Commercial Pecan Orchards. *JOURNAL OF ENTOMOLOGICAL SCIENCE*, 51(3), 199-208. Retrieved from <http://gateway.webofknowledge.com>

Dutcher, J. D. (2016). A Suction Trap for Sampling Aphids and Aphidophagous Insects in Pecan Trees. *International Research Journal of Insect Sciences*, 2(1), 1-11. Retrieved from <http://www.pakinsight.com/about-ppg.html>

Dutta, B., R. Gitaitis, A. K. Barman, U. Avci, K. Marsigan, and R. Srinivasan. 2016. Interactions between *Frankliniella fusca* and *Pantoea ananatis* in the center rot epidemic of onion (*Allium cepa*). *Phytopathology* 106(9):956-62.

Dynes, T. L., De Roode, J. C., Lyons, J. I., Berry, J. A., Delaplane, K. S., & Brosi, B. J. (2016). Fine scale population genetic structure of *Varroa destructor*, an ectoparasitic mite of the honey bee (*Apis mellifera*). *Apidologie*, 2016, 1-9

Georgia Entomological Society Annual Meeting



The 2017 Georgia Entomological Society meeting will be

held April 5-7, 2017 at Villas by the Sea on Jekyll Island.

CAES Years Of Service Awards

The College of Agricultural and Environmental Sciences recognized Years of Service awards at the Holiday Event in December. Mark Brown (left) and Karl Espelie (right) received 30 years of service



recognition award. The following were also recognized: 20 Years—Donald Champagne, Paul Guillebeau, Joseph McHugh

15 Years - Jennifer Berry, Nancy Hinkle

10 Years— Joseph Laforest.

In April 2016, Tifton campus celebrated Years of Service. The following were recognized:

15 Years- David Griffin,
20 Years- Jenny Granberry,
30 years- Stan Diffie.

Publications - Refereed Journal Articles—*cont'd*

Fletcher, S. J., A. Shrestha, J. R. Peters, B. J. Carroll, R. Srinivasan, H. Pappu H and N. Mitter. 2016. The Tomato Spotted Wilt Virus Genome Is Processed Differentially in its Plant Host *Arachis hypogaea* and its Thrips Vector *Frankliniella fusca*. *Front. Plant Sci.* 7:1349. doi: 10.3389/fpls.2016.01349.

Gardner, W., & Olson, D. M. (2016). Population Census of *Megacocta cribraria* (Hemiptera: Plataspidae) in Kudzu in Georgia, USA, 2013-2016. *JOURNAL OF ENTOMOLOGICAL SCIENCE*, 51(4), 325-328. Retrieved from <http://gateway.webofknowledge.com/>

Glastad KM, Goodisman MAD, Yi SV, Hunt BG (2016) Effects of DNA methylation and chromatin state on rates of molecular evolution in insects. *G3: Genes, Genomes, Genetics*. 6: 357-363.

Grant, J. A. and A. A. Sial. 2016. Potential of Muscadine Grapes as a Viable Host of *Drosophila suzukii* (Diptera: Drosophilidae) in Blueberry Producing Regions of the Southeastern U.S. *J. Econ. Entomol.* 109: 1261-1266.

Hanna, W. W., Braman, S. K., & Schwartz, B. M. (2016). 'Tift 15', 'Tift 26', 'Tift 114', 'Tift 118', and 'Tift 125' Ornamental Pennisetums. *HORTSCIENCE*, 51(4), 444-447. Retrieved from [http://gateway.webofknowledge.com/Hanna, W. W., Braman, S. K., & Schwartz, B. M. \(2016\). Registration of 'Tift 10', 'Tift 11', and 'Tift 40' Trispecific Ornamental Pennisetum. *JOURNAL OF PLANT REGISTRATIONS*, 10\(1\), 1-4. doi:10.3198/jpr2015.07.0040crc](http://gateway.webofknowledge.com/Hanna, W. W., Braman, S. K., & Schwartz, B. M. (2016). Registration of 'Tift 10', 'Tift 11', and 'Tift 40' Trispecific Ornamental Pennisetum. JOURNAL OF PLANT REGISTRATIONS, 10(1), 1-4. doi:10.3198/jpr2015.07.0040crc)

Harris, B., & Braman, S. K. (2016). Opportunity to improve public perceptions of arthropods and arthropod-related benefits. *Journal of Extension*

Harris, B. A., Braman, S. K., & Pennisi, S. V. (2016). Influence of Plant Taxa on Pollinator, Butterfly, and Beneficial Insect Visitation. *HORTSCIENCE*, 51(8), 1016-1019.

Huseth, A. S., Chappell, T. M., Langdon, K., Morsello, S. C., Martin, S., Greene, J. K., . . . Kennedy, G. G. (2016). *Frankliniella fusca* resistance to neonicotinoid insecticides: an emerging challenge for cotton pest management in the eastern United States. *PEST MANAGEMENT SCIENCE*, 72(10), 1934-1945. doi:10.1002/ps.4232

Kanno, K., Kawabata, T., Ishikawa, Y., Katayama, J., Hirao, M., Tabaru, Y., . . . Lee, C.-Y. (2016). Area-wide fly management in the tsunami-affected zones of Tohoku region, Japan. *International Pest Control*, 26-33

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Faculty Patents issued 2016

Champagne, D. E., Tsukimoto, H, Franchschetti, I., Strand, M. R. & Kotsyfakis, M. (2016). Simukunin. US Patent 9,365,626.

Hanna, W. W., Braman., & Schwartz. (2016, November 7). 5,045,892, Trademark for "Regal Princess"

Hanna, W. W., Braman., & Schwarz. (2016, November 7). 5,045,892, Trademark for 'Royal Lady'

Hanna, W. W., Braman., & Schwartz. (2016, November 7). 5,045,893, Trademark for 'Majestic'

“If you do what you have always done, then you will get what you have always gotten.” - Anthony Robbins, businessman, author, and philanthropist

Digitizing North America’s moth and butterfly collection

Joe McHugh, professor of entomology at the UGA College of Agricultural and Environmental Sciences and curator of the arthropod collection at the Georgia Museum of Natural History, will help lead the effort to digitize millions of butterfly and moth specimens now locked away in museum collections across the nation.

For more information on the work being done by researchers at the UGA College of Agricultural and Environmental Sciences’ Depart-

ment of Entomology, visit ent.uga.edu. For more information about the Georgia Museum of Natural History, visit naturalhistory.uga.edu



Story published 09/13/2016 by CAES NEWS, Author: Merritt Melancon (a news editor with the University of Georgia College of Agricultural & Environmental Sciences

UGA Bug Camp



Is back, announced Dr. Marianne Shockley recently. This year Bug Camp will be

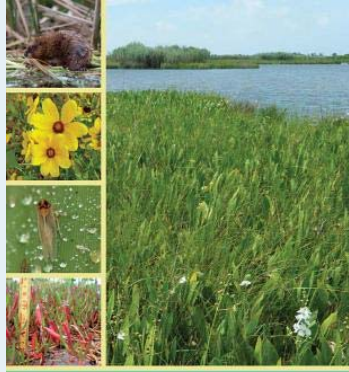
available on the Tifton campus as well as Athens. Registration is now open for Elementary school age students.

Camp Dates: June 5-9, July 10-14 and July 24-28, 2017

Students will spend the week learning about insects from UGA Entomology faculty, graduate students, and staff. Insect collecting field trips, tours of entomology labs and research facilities in Athens, and campus lectures/insect identification labs will provide students a hands-on entomological learning experience both in and out of the classroom.

Program Fee: \$165 (Includes Bug Camp T-Shirts). Online registration is available at: <https://blog.caes.uga.edu/bugcamp/registration/>





Ecology of Freshwater and Estuarine Wetlands
SECOND EDITION
EDITED BY DAROLD P. BATZER AND REBECCA R. SHARITZ

2016 Faculty Published Books

Batzer, D., & Boix, D. (eds)
Invertebrates in Freshwater
Wetlands An International
Perspective on their Ecology. Springer

SMILES ... A few pictures
from the recent faculty meeting
in Tifton, more on page 14. Da-
rold Batzer and Keith Delaplane
share a laugh and Ian Knight
serves as the tour guide.



Thanks to
Nancy
Hinkle for
taking
pictures.



Publications - Refereed Journal Articles—*cont'd*

Marasigan, K., Toews, M., Jr, K. R., Abney, M. R., Culbreath, A., & Srinivasan, R. (2016). Evaluation of Alternatives to Carbamate and Organophosphate Insecticides Against Thrips and Tomato Spotted Wilt Virus in Peanut Production. *JOURNAL OF ECONOMIC ENTOMOLOGY*, 109(2), 544-557. doi:10.1093/jee/tov336

Marasigan, K., Toews, M., Kemerait, R., Abney, M. R., Culbreath, A., & Srinivasan, R. (2016). Evaluation of Alternatives to Carbamate and Organophosphate Insecticides Against Thrips and Tomato Spotted Wilt Virus in Peanut Production. *JOURNAL OF ECONOMIC ENTOMOLOGY*, 109(2), 544-557. doi:10.1093/jee/tov336

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Meng, T., Klepacka, A. M., Florkowski, W. J., & Braman, K. (2016). Determinants of recycling common types of plastic product waste in environmental horticulture industry: The case of Georgia. *WASTE MANAGEMENT*, 48, 81-88. doi:10.1016/j.wasman.2015.11.013

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Seiter, N. J., Del Pozo-Valdivia, A. I., Greene, J. K., Reay-Jones, F. P. F., Roberts, P. M., & Reisig, D. D. (2016). Management of *Megacopta cribraria* (Hemiptera: Plataspidae) at Different Stages of Soybean (Fabales: Fabaceae) Development. *JOURNAL OF ECONOMIC ENTOMOLOGY*, 109(3), 1167-1176. doi:10.1093/jee/tow053

Seitz, N., K.S. Traynor, D. vanEngelsdorp, N. Steinhauer, K. Rennich, M. Wilson, J. Ellis, R. Rose, D. Tapy, R. Sagili, D. Caron, K. Delaplane, J. Rangel, K. Lee, K. Bayliss, J. Wilkes, J. Skinner, J. Pettis. 2016. A national survey of managed honey bee 2014 - 2015 annual colony losses in the USA. *Journal of Apicultural Research* 54(4): DOI: 10.1080/00218839.2016.1153294

Simmonds, T. J., Carrillo, D., & Burke, G. R. (2016). Characterization of a venom gland-associated rhabdovirus in the parasitoid wasp *Diachasmimorpha longicaudata*. *JOURNAL OF INSECT PHYSIOLOGY*, 91-92, 48-55. doi:10.1016/j.jinsphys.2016.06.009

Serendipity

by Robert W. Matthews, Josiah Meigs Distinguished Teaching Professor of Entomology, *Emeritus*



Dr. Robert Matthews
Emeritus

Together with my wife and infant son, I arrived in Athens on a beautiful sunny January afternoon in 1969. After the long U-haul truck ride from wintry Boston, Georgia seemed like heaven on earth. The situation at UGA was unprecedented; post-Sputnik expansion of the sciences was racing forward with every department in the Biological Sciences recruiting new faculty.

My interview visit had been unusual. My PhD research at Harvard's Museum of Comparative Zoology had been in insect systematics, but when I arrived Dr. Preston Hunter informed me that just prior to my interview, Dr. Tom Atyeo had been hired to develop the program in arthropod systematics. However, the department also wished to build a program in insect behavior. This news sent me scurrying. Hurriedly, I revised and refocused my talk around some materials I had by pure chance tossed into my suitcase -- Kodachrome slides of projects on wasp behavior that I had completed two years earlier in Costa Rica, and a resulting publication in *Science*.

I was offered a starting salary of \$10,500 for the 9-month contract that was standard in those years when Entomology was part of the College of Arts and Sciences. The startup package was small -- a 16mm movie camera and a dissecting microscope. Office space was severely limited and my domain was to be a tiny office on the 6th floor next to the greenhouse.

I wasn't in that office long before serendipity intervened again. As a fallback option, prior to being offered the position at UGA, my major professor Howard Evans and I had submitted an NSF proposal to study sand wasp nesting behavior in Australia. I had almost forgotten about this when news of its funding came in April 1969. With approval from the dean and the department head, Horace Lund, I was granted a year's leave of absence, and in August the family and I boarded a plane for the long flight to Australia.

This development was no doubt welcomed by the nine other new faculty that were also arriving at around the same time -- Tom Atyeo, "Dac" Crossley, Bruce Wallace, Mitch Miller, Wayne Berisford, Chet Himel, Henry Hermann, Herb Ross, and Arden Lea. With so many of us scrambling to establish our respective program areas and develop new courses, there were more slots than students available to fill them. Fieldwork effectively removed me from the competition until August 1970, when things had begun to stabilize a bit.

The Australia fieldwork subsequently generated over 20 research publications on behavior of various wasps, most of which were also undescribed new species, so my systematics background proved handy, after all. We were fortunate to travel the length and breadth of Australia when much of the outback was still an open frontier, and we camped under the stars most nights. It was a serendipitous beginning to my long career at UGA. In a way, retirement has brought me full circle, as I volunteer with the Entomology Museum collection as Hymenoptera curator. •

Transitions

This column is designed to recognize all the people that have come and gone since the last publication date. The time frame we used for this newsletter is Nov. 2016 to February 2017. We apologize in advance for any omissions.

ARRIVALS

Teri Berryman, Administrative Specialist, Athens;

Craig Roobos, Post Doc (Ash Sial), Athens;

Kip Lacy, Grad Student (Ken Ross), Athens;

Suzanne Allison, Grad Student (Kerry Oliver), Athens;

DEPARTURES

Janna McFarlin, Associate Accountant, Griffin, upon arrival of 2nd child chose to be a stay-at-home Mom, February 2017.

Stan Diffie, Research Professional III, Tifton, retired December 31, 2016 after 32 years in Entomology at UGA.

Keith Douce, Professor, Tifton, retired December 31, 2016 after 40 years at UGA. He was the Extension Forest Entomologist and Co-Director at the Center for Invasive Species and Ecosystem Health.

Jim Dutcher, Professor & Pecan Entomologist, Tifton, retired January 31, 2017 after 38 years at UGA.

Josh Grant, Grad Student, Athens is moving to Cordele, GA where he will be the ANR Agent at Crisp County Cooperative Extension, February 2017.

Bal Gautam, Post Doc (Ash Sial), Athens, December 2016.

Dietrich Gotzek, Post Doc (Ken Ross), Athens, December 2016.

Publications - Refereed Journal Articles—*continued*

Srinivasan, R., and D. Buntin. 2016. Insect transmitted viruses in Canola. In G.V.P. Reddy (ed.), Integrated management of insect pests of canola and other brassica oilseed crops. Pp 305-315, CABI Publishing, Switzerland.

Strand, M. R., Brown, M. R., & Vogel, K. J. (2016). Mosquito Peptide Hormones: Diversity, Production, and Function. PROGRESS IN MOSQUITO RESEARCH, 51, 145-+. doi:10.1016/bs.aip.2016.05.003

Riley, D., A. Sparks, R. Srinivasan, G. Kennedy, G. Fonsah, and J. Scott. 2016. Thrips: Vector biology and management. In W. Wakil, G. Brust, and T. Perring [Eds]. Sustainable Management of Arthropod Pests of Tomato. 30 Pp. Elsevier Academic Press, Netherlands.

Seiter, N. J., Del Pozo-Valdivia, A. I., Greene, J. K., Reay-Jones, F. P. F., Roberts, P. M., & Reisig, D. D. (2016). Management of Megacopta cribraria (Hemiptera: Plataspidae) at Different Stages of Soybean (Fabales: Fabaceae) Development. JOURNAL OF ECONOMIC ENTOMOLOGY, 109(3), 1167-1176. doi:10.1093/jee/tow053

Seitz, N., K.S. Traynor, D. vanEngelsdorp, N. Steinhauer, K. Rennich, M. Wilson, J. Ellis, R. Rose, D. Tarpy, R. Sagili, D. Caron, K. Delaplane, J. Rangel, K. Lee, K. Bayliss, J. Wilkes, J. Skinner, J. Pettis. 2016. A national survey of managed honey bee 2014 - 2015 annual colony losses in the USA. Journal of Apicultural Research 54(4): DOI: 10.1080/00218839.2016.1153294

Simmonds, T. J., Carrillo, D., & Burke, G. R. (2016). Characterization of a venom gland-associated rhabdovirus in the parasitoid wasp *Diachasmimorpha longicaudata*. JOURNAL OF INSECT PHYSIOLOGY, 91-92, 48-55. doi:10.1016/j.jinsphys.2016.06.009

Srinivasan, R., and D. Buntin. 2016. Insect transmitted viruses in Canola. In G.V.P. Reddy (ed.), Integrated management of insect pests of canola and other brassica oilseed crops. Pp 305-315, CABI Publishing, Switzerland.

Strand, M. R., Brown, M. R., & Vogel, K. J. (2016). Mosquito Peptide Hormones: Diversity, Production, and Function. PROGRESS IN MOSQUITO RESEARCH, 51, 145-+. doi:10.1016/bs.aip.2016.05.003

Stubbins, F. L., Greene, J. K., Toews, M. D., & Reay-Jones, F. P. F. (2016). Assessment of a Cross-Vane Trap as a Tool for Sampling the Invasive *Megacopta cribraria* (Hemiptera: Plataspidae) in Soybean with Associated Evaluations of Female Reproductive Status. ENVIRONMENTAL ENTOMOLOGY, 45(5), 1262-1270. doi:10.1093/ee/nvw113

Trible, W. and K. G. Ross. 2016. Chemical communication of queen supergene status in an ant. JOURNAL OF EVOLUTIONARY BIOLOGY 29:502-513.

Wallace, R. D., Barger, C. T., Moorhead, D. J., & LaForest, J. H. (2016). IveGot1: Reporting and Tracking Invasive Species in Florida. Southeastern Naturalist, 15(sp8), 51-62. doi:10.1656/058.015.sp805

Zhang, Y., Hanula, J., Horn, S., Jones, C., Braman, S. K., & Sun, J. (2016). Fundamental Host Range of *Leptoxypha hospita* (Hemiptera: Tingidae), a Potential Biological Control Agent of Chinese Privet. Environmental Entomology, 897-908. doi:10.1093/ee/nvw062
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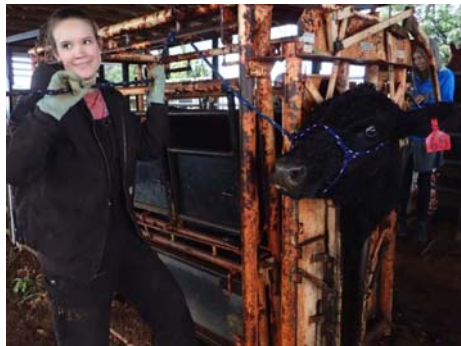
“A man thinks he amounts to a great deal but to a flea or a mosquito a human being is merely something good to eat” - Don Marquis, humorist, journalist & author.

Annie Rich



"My name is Annie Rich and I am a master's student studying veterinary entomology. Thus far in my graduate career I have worked with urban, medical, and veterinary pests such as mosquitoes, mites, ticks, biting flies, household flies, and darkling beetles. I am the treasurer of the H.O. Lund Club, and I compete with the Linnaean team, the department's academic team. For my master's

research I work with mosquito control, using treated cattle that have potential to reduce mosquito populations in agricultural regions affected by vectored disease,



and I work specifically with the malaria mosquito. If I could be any insect, I would be a walking stick, so I wouldn't get eaten by a bird. One of my passions is outreach, educating the public about the importance of vector control and entomology in agriculture. I have also attended and presented at several conferences including

American Mosquito Control Association, and the Livestock Insect Worker's conference, among others. I have had the privilege of attending workshops such as a mosquito ID workshop and the OSU Acarology Summer Program. I look forward to a long and happy career as an entomologist!"

- Thank you, Annie for providing this bio and photographs. •

"Success is a state of mind. If you want success, start thinking of yourself as a success" - Dr. Joyce Brothers

2016 Faculty Accomplishments—Chapters

Batzer, D. P., & Boix, D. An introduction to freshwater wetlands and their invertebrates. In D. Batzer, & D. Boix (Eds.), *Invertebrates in Freshwater Wetlands: An International Perspective on their Ecology* (pp. 1-23). New York: Springer

Batzer, D. P., Wu, H., Wheeler, T., & Eggert, S. Peatland invertebrates. In D. P. Batzer, & D. Boix (Eds.), *Invertebrates in Freshwater Wetlands: An International Perspective on their Ecology* (pp. 219-250). Springer, New York

Batzer, D. P., Gallardo, B., Boulton, A., & Whiles, M. Invertebrates in temperate-zone river floodplains. In D. P. Batzer, & D. Boix (Eds.), *Invertebrates in Freshwater Wetlands: An International Perspective on their Ecology* (pp. 451-492). Springer, New York

Boix, D., & Batzer, D. P. Invertebrate assemblages and their ecological controls across the world's freshwater wetlands. In D. P. Batzer, & D. Boix (Eds.), *Invertebrates in Freshwater Wetlands: An International Perspective on their Ecology* (pp. 601-639). Springer, New York

Isaacs, R., Blaauw, B., Williams, N., Kwapong, P., Lee-Mäder, E., & Vaughan, M. Farm-Tailored Measures to Sustain and Enhance Pollination Services. In B. Gemmill-Herren (Ed.), *Pollination Services to Agriculture: Sustaining and Enhancing a Key Ecosystem Service* (pp. 113-130). New York: Routledge

Oliver, K. M., & Russell, J. A. Symbiosis, An Introduction. In R. Kliman (Ed.), *Encyclopedia of Evolutionary Biology* (1st ed.). Academic Press. Retrieved from <http://store.elsevier.com/>

Ortiz, B., Flanders, K., Hagan, A., Martinez-Espinoza, A. D., Buck, J., Johnson, J., Buntin D., & Wright, D. Wheat. In *Climate and Crops: Adapting Farming to a Variable Climate* (pp. 71-89) Ortiz, B., Monfort, W.S., Tubbs, R.S., Kemeraït, R., Abney, M. R. (2016). Peanut. In B. Ortiz (Ed.), *Climate and Crops*. [Apple iBook] Alabama Extension at Auburn University.

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Weldon, S. R., & Oliver, K. M. Diverse bacteriophage roles in an aphid-bacterial defensive mutualism. In C. J. Hurst (Ed.), *Advances in Environmental Microbiology: The Mechanistic Benefits of Microbial Symbionts*. Springer. doi:10.1007/978-3-319-28068-4_7

Student Spotlight

Thomas C. McElrath

Tommy McElrath, a doctoral candidate in Joseph McHugh's lab, started at UGA in 2010 immediately after he graduated with a BA in Biology from Covenant College. Originally from Phoenix AZ, he has always had a passion for animals, nature, collections, and insects. His doctoral work uses both molecular and morphological methods to address the systematics of beetles in the superfamilies Cucujoidea and Coccinelloidea. One of his first papers led to the subsuming of a beetle family with another¹. Recently he was involved in the detection of a newly introduced genus of Bothrideridae that has become established in Ohio². Currently he is unraveling the difficult alpha taxonomic problems of the genus *Bactridium* in North America using environmental scanning electron microscopy. Once he finishes his degree he hopes to become a collections manager, and is actively job hunting. If you hear of any openings, let him know! •

¹McElrath, T. C., J. A. Robertson, M. C. Thomas, J. Osborne, K. B. Miller, J. V. McHugh and M. F. Whiting (2015) A molecular phylogenetic study of Cucujidae s.l. (Coleoptera: Cucujoidea). *Systematic Entomology*, 40, 705-718.

²McElrath, T. C., R. A. Androw and J. V. McHugh (2016) *Antibothrus morimotoi* Sasaji, an Old World cocoon-forming beetle (Coleoptera: Coccinelloidea: Bothrideridae) newly established in North America. *Zootaxa*, 4154, 323-330.



“There is more to life than simply increasing its speed.”- Mahatma Gandhi

Highlights of Faculty Meeting in Tifton—March 2017



A few more pictures from the meeting, provided by Nancy Hinkle. If you are interested in seeing more pictures from the meeting, or want copies please contact Nancy Hinkle or Teri Berryman.



Dr. Brett R. Blaauw

Assistant Professor
bblaauw@uga.edu



aka Regional (GA & SC) peach entomologist

Extension - highlights the importance of IPM and the support of insect natural enemies and pollinators for the sustainability of southeastern fruit production.

Research - focuses on integrating insect behavior and ecology to more effectively and sustainably manage insect pests.



Faculty Meeting in Tifton—March 2017



UGA Entomology Faculty, Tifton, GA—March 2017

Front row, pictured left to right, Brett Blaauw, Marianne Shockley, David Riley, Courtney Brissey, Keith Delaplaine, Kris Braman, Donald Champagne, Joe Laforest, Wayne Gardner, Dan Suiter. Back row is Karl Espelie, Phillip Roberts, Mark Abney, Nancy Hinkle, Darold Batzer, Michael Toews, Stormy Sparks, Kerry Oliver, David Buntin, Paul Guillebeau, Jason Schmidt, Michael Strand, Mark Brown and Brian Forschler.

Calendar Reminders

March 29, 2017—Griffin Campus Classified Awards Recognition Ceremony, Griffin

April 5-7, 2017—GES Annual meeting, Jekyll Island.

April 9-15, 2017—LUND Week, Athens

April 19, 2017 —Tifton Campus Awards Ceremony, Tifton

April 28—May 4, 2017—UGA Finals

May 4, 2017—Spring Graduation, Griffin

May 5, 2017—Commencement, Athens

May 29, 2017—UGA Holiday

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