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From the Center Director

At this writing, the summer solstice occurred yesterday, marking the first day of summer in the Northern Hemisphere. That marker seems somewhat displaced in the Florida Panhandle with the 90+ degree days and thunderstorms we've experienced for a while now. Regardless, our summer crops at the Jay Research Facility are all planted, germinated and looking good. Author Brian Brett said that "farming is a profession of hope", and I'm hopeful that good looking crop plants in June translate to a big, profitable harvest for Panhandle farmers this fall.



Dr. Wes Wood
Professor & Center Director

We had several successful events last quarter that bear mentioning, the first being our Spring Festival of Flowers held on the Milton UF/PSC campus in April. Thousands attended the event and thousands of dollars were raised via plant sales by our student club to support their activities and sponsor scholarships. Our spring graduation was held on 10 May, where we graduated our largest class to date, a milestone that attests to our growing teaching program. Lastly, our Gulf Coast Turfgrass Expo and Field Day was held this week with excellent programs for turfgrass professionals and homeowners to enjoy and gain useful knowledge regarding turfgrass management. These events would not be possible without the dedication and hard work of our faculty and staff, and I'm very appreciative of their efforts.

I indicated in the last newsletter that we were interviewing candidates for our vacant weed scientist position (60% research, 40% extension). I'm happy to announce that we filled the position with a well-qualified young scientist, Dr. Pratap Devkota. Pratap is currently working as a Weed Science Advisor for the University of California, and he will join us on 13 November. His program will focus on weed management in agro-nomic crops in the state of Florida. i.e., he will have state-wide responsibilities in this focus area that go beyond the Panhandle.

We've made progress with regard to WFREC infrastructure in recent months. Back in April, high winds damaged our greenhouses at the Jay Research Facility. This past week the roofs were completely replaced on those greenhouses restoring their functionality. Our greenhouses on the Milton campus need help as well, including replacement of fans, rack and pinion louver drives and some structural metal. We are currently obtaining materials required to make those repairs this coming winter. Monies and drawn plans are now in place for IFAS Facilities to begin work on an equipment shed expansion and a head-house remodel to accommodate plant grinding equipment; both of these projects are at the Jay Research Facility. Maintaining and improving infrastructure is a constant and expensive battle against entropy.

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In early September the WFREC will be reviewed by the IFAS Senior Vice President and the IFAS Deans. Much preparation will go into this review by myself, faculty and staff. Our stakeholders will also play an important part in the review. I look forward to the opportunity to showcase the good things we do and the progress we've made at the WFREC in recent years.

Please keep in mind our Extension Farm Field Day to be held on Friday, 10 August at the Jay Research Facility. I hope to see you there. Moreover, I wish everyone a happy and productive summer.

Go Gators!



2018-2019 PSC/UF Milton 2+2 Scholarships

Every year Pensacola State College and University of Florida Milton Campus give out two 2 + 2 scholarships. These scholarships are given to students who want to pursue a degree in one of the programs offered at the Milton campus. Pensacola State College pays a portion of the student's tuition for attending PSC the first two years, and the University of Florida pays a portion of the student's tuition while attending UF. The total award per scholarship winner is approximately \$5000. Applicants must submit a full application package to the committee, and after the interview process the applicants are selected for this prestigious scholarship. The 2+2 scholarship recipients for the 2018-2019 school year are Zachary Rutherford from Central High School and Ryan Barrow from Milton High School. When Zachary graduates with his Plant Science degree, he intends to work with local crop producers and own his own farm. Ryan has chosen the Natural Resource Conservation Program in hopes to work for the Florida Department of Agriculture as a County Forester.

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Dr. Mike Mulvaney,
Assistant Professor, Agronomy



Extension publications:

- **M.J. Mulvaney**, R. Seepaul, I. Small, D. Wright, S. Paula-Moraes, C. Crozier, P. Cockson, B. Whipker, R. Leon. 2018. Frost Damage of Carinata Grown in the Southeastern US. UF/IFAS Electronic Delivery Information System (EDIS) publication SS-AGR-420. University of Florida, Gainesville, FL. <http://edis.ifas.ufl.edu/ag420>
- S.A. Byrd, D.L. Rowland, L. Zotarelli, **M. Mulvaney**. Growth Stages and Tuber Development of 'FL 1867' Potato Under Full and Reduced Irrigation Scheduling. UF/IFAS Electronic Delivery Information System (EDIS) publication SS-AGR-383. University of Florida, Gainesville, FL. <http://edis.ifas.ufl.edu/ag388>
- C.G. Staub, D. Perondi, D.N.L. Pequeno, P. Troy, **M.J. Mulvaney**, C. Perry, B. Hayes, W. Pavan, C.W. Fraisse. 2018. AgroClimate Crop Season Planning Tool: Reducing the Risk of Extreme Weather Events During Key Stages of Crop Development. UF/IFAS Electronic Delivery Information System (EDIS) publication AE525. University of Florida, Gainesville, FL. <http://edis.ifas.ufl.edu/ae525>

Newsletter publications:

- E. Carter, **M. Mulvaney**. 2018. Boron Deficiency: A Rare but Serious Issue in Peanut. Panhandle Ag e-News, Jun. 8, 2018. <http://nwdistrict.ifas.ufl.edu/phag/2018/06/08/boron-deficiency-a-rare-but-serious-issue-in-peanut/>
- **M. Mulvaney**. 2018. Growing Fuel for Commercial and Military Jets. The Mulvaney Pipeline, Apr.-Jun. 2018. [https://www.mulvaneymechanical.com/2nd%20Quarter%202018%20\[3\].pdf](https://www.mulvaneymechanical.com/2nd%20Quarter%202018%20[3].pdf)

Dr. Silvana Paula-Moraes
Assistant Professor, Crop Pest Management

Peer-review :

Otanasio, P.N., Vieira, L.C.G., Roque-Specht, V.F., **Paula-Moraes, S.V.**, Luz, P.C., Specht, A. 2018. Comparison of two artificial diets to rear *Elaphria agrotina*. *Ciência Rural*, 48, DOI10.1590/0103-8478cr20170375.

Reisig, D., Huseh, A.S., Bacheler, J.S., Mohammad-Amir, A.A., Braswell, L., Burrack, H.J., Flanders, K., Greene, J.K., Hebert, D.A., Jacobson, A., **Paula-Moraes, S.V.**, Roberts, P., Taylor, S.V. 2018. Long-term empirical and observational evidence of practical *Helicoverpa zea* resistance to cotton with pyramided Bt toxins. *J. Econ. Entomol.*, XX, p.1-10, doi: 10.1093/jee/toy106.



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Dr. Silvana Paula-Moraes—*continued from page 3*

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Silva, I.F., Baldin, E.L.L., Specht, A., Sosa-Gomez, D.R., Roque-Spchet, V.F., Morando, R., **Paula-Moraes, S.V.** 2018. Biological and molecular characterization of the postinvasion immature stages of *Helicoverpa armigera* (Hübner) (Lepidoptera: Noctuidae). *Florida Entomologist*, 101(1): 25-32. doi: 10.1653/024.101.0106

Non-referred Publications

Huang, F., Kaur, G., Brown, S., Guo, J., Head, G.P., Price, P.A., **Paula-Moraes, S.**, Ni, X., 2018. Documentation of field resistance to Cry1A.105/Cry2Ab2 corn in corn earworm populations in Louisiana. *Entomology Society of America 66rd*, Vancouver, BC, Canada.

Baldwin, J., **Silvana Paula-Moraes**, Latisa Ledbetter-Kish, and Roberto Pereira. Red fire ants in fields crops of Florida Panhandle. In: 2018 Southeastern Branch Meeting, March 04 - 07, Orlando, FL.

Kaur, G., Guo, J., Niu, Y., Brown, S., Head, G.P., Price, P.A., **Paula-Moraes, S.**, Ni, X., and Huang, F.. Susceptibility of corn earworm populations from southeastern United States to Cry1A.105 and Cry2Ab2 proteins. In: 2018 Southeastern Branch Meeting, March 04 - 07, Orlando, FL.

Moore, A., **Silvana Paula-Moraes**, Jessica Baldwin, Latisa Ledbetter-Kish and Michael Mulvaney. Insects associated with *Brassica carinata* in the southern region of the U. S.: occurrence and biology. In: 2018 Southeastern Branch Meeting, March 04 - 07, Orlando, FL.

Student *Spotlight*

Jessica Baldwin, a Masters Graduate student, participated in the Student Oral Presentation competition at the SPARC Annual Meeting—year 1 in Quincy, Florida at the University of Florida/North Florida Research and Education Center on June 25th. Jessica's presentation, 'Occurrence, biology, and the economic impact of insects associated with *Brassica carinata* (A. Braun) (Brassicales: Brassicaceae) in the Southeastern U.S.,' is in line with her research work with Dr. Silvana Paula-Moraes on insect pests and defoliation in *carinata*.



Left to right: Jessica Baldwin and Dr. Moraes

2018 University of Florida Milton Campus Spring Graduation

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At the University of Florida, Milton Campus students can earn a Bachelor of Science degree from the University of Florida without moving to Gainesville. On May 10, 2018 The Milton Campus held a commencement ceremony to honor twenty-one Bachelor of Science degree graduates. Dr. Wes Wood, Center Director of the WFREC, presented the graduating class to family, friends, and guests. Faculty and fellow students extended congratulations and presented highlights of each graduate's time at the University of Florida Milton Campus.

Congratulations to the following graduates:

Environmental Horticulture Graduates

Amir P. Kelker

Bachelor of Science—Environmental Horticulture

Gina Q. Mangold, Summa Cum Laude

Bachelor of Science—Environmental Horticulture

Minor: Soil & Water Science

Ashley R. Moore, Magna Cum Laude

Bachelor of Science—Environmental Horticulture

Minor: Soil & Water Science

Christiana R. Rarie

Bachelor of Science—Environmental Horticulture

Minor: Soil & Water Science

Tabitha L. Samuels, Summa Cum Laude

Bachelor of Science—Environmental Horticulture

Minor: Management & Sales in Agribusiness

Trenton A. Stewart

Bachelor of Science—Environmental Horticulture

Lydia A. Weaver

Bachelor of Science—Environmental Horticulture

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2018 University of Florida Milton Campus Spring Graduation

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Natural Resource Conservation Graduates

Emily E. Bagby, Cum Laude

Bachelor of Science—Forest Resources and Conservation

Calvin L. Beech

Bachelor of Science—Forest Resources and Conservation

Daniel K. Brethauer, Cum Laude

Bachelor of Science—Forest Resources and Conservation
Minor: Wildlife Ecology & Conservation

Anna E. Dicks

Bachelor of Science—Forest Resources and Conservation

Kelsea S. Heider, Cum Laude

Bachelor of Science—Forest Resources and Conservation
Minor: Soil & Water Science

Sara J. Hunt

Bachelor of Science—Forest Resources and Conservation

Benjamin L. Jammer

Bachelor of Science—Forest Resources and Conservation

Trista T. Miller

Bachelor of Science—Forest Resources and Conservation

Brian W. Schumann

Bachelor of Science—Forest Resources and Conservation
Minor: Wildlife Ecology & Conservation

Cortney C. Stotts

Bachelor of Science—Forest Resources and Conservation

Brian K. Whalen, Cum Laude

Bachelor of Science—Forest Resources and Conservation

Blakely M. Williams

Bachelor of Science—Forest Resources and Conservation
Minor: Wildlife Ecology & Conservation

William E. Zuhlke

Bachelor of Science—Forest Resources and Conservation

Gordon D. Von Weyhe

Bachelor of Science—Environmental Horticulture
Minor: Golf & Sports Turf Management

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Carpenter Creek Watershed

Pensacola, Florida

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Dr. Matthew Deitch's Masters Graduate student, Traci Goodhart, is conducting her graduate research project in the Carpenter Creek Watershed in Pensacola, Florida. Carpenter Creek is the largest tributary of Bayou Texar and the northwestern portion of Pensacola Bay. Nearly 80% of land in the Carpenter Creek watershed is characterized as urban commercial or urban residential development. According to the US EPA, this watershed is impaired for total nitrogen and fecal coliform. Habitat loss and water quality impairments observed in Carpenter Creek and Bayou Texar are attributed to urban development. The goal of Traci's project is to better understand the concentrations of select pollutants (suspended solids and select anions) during base flow and peak flow conditions, to observe any seasonal changes in concentration or load, and examine differences in storm water load and water contaminants between sites with varying upstream land use. Traci has three sampling sites within the watershed. Weekly, at each site, Traci measures

streamflow using a US Geological Survey-style current meter and wading rod. Pressure transducers are installed at each site that record water stage (depth) every 15 minutes. Flow measurements and stage data collected are being used to create a stage-discharge rating curve and a continuous streamflow data set. A multi-parameter handheld device is used to measure stream temperature, pH, dissolved oxygen, conductivity, total dissolved solids, and salinity during each visit. At least two storm events each month are being sampled using Sigma 900 automatic storm water samplers, which collect up to 24 water samples at a discrete interval (typically, once per hour) over a designated time period. All water samples are analyzed for suspended solids and anions using vacuum filtration and ion chromatography in Dr. Deitch's Watershed Management Lab. In addition, pollutant concentrations are being correlated to land use changes using spatial analysis tools in ArcMap. Traci's results will be used by Escambia County staff to inform future restoration actions in the watershed.



UF's Carpenter Creek research team,
right to left:
Traci Goodhart, Dr. Matt Deitch, &
Savannah Cain.



Carpenter Creek, Pensacola, Florida



An automatic stormwater sampler is positioned on the bank of Carpenter Creek to take water samples during an approaching rainfall event.

Masters student Traci Goodhart measures streamflow in Carpenter Creek, Escambia County, Florida



The set up for an automatic water sampler includes a power source, the computer, the base with sample bottles, and tubing protected by PVC pipes that transports water from the creek.

Spring Festival of Flowers

Highlights

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The University of Florida and Pensacola State College Milton Campus held its annual Spring Festival of Flowers on April 6, 7, & 8. This is one of the largest events held in Milton all year. The festival drew plant enthusiasts from near and far. This festival featured plant nurseries, UF Student Club plant sale, arts & crafts, great food, and educational demonstrations.



Thousands of folks came out during this three-day festival to purchase plants and other arts and crafts. The festival proceeds will be distributed between UF and PSC for scholarships. Thanks to all the sponsors, exhibitors and shoppers for your support!



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Mark your calendars for next year's dates... April 5, 6 & 7, 2019.

Vendors that would like to participate, please contact
Robin Vickers at 850-983-7134 or rvickers@ufl.edu.



New Employees *this summer*

This summer we are seeing many new faces at the Jay facility and at the UF Milton campus. It is always a pleasure to get to know our new employees/students/interns.

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Mahesh Bashyal recently joined the Ph.D. program in Agronomy at the University of Florida under Dr. Mike Mulvaney. Mahesh will be working in cropping system and nutrient study research in carinata at UF/WFREC.



Scott Butts is working with Dr. Deitch and Dr. Paula-Moraes on their videos for the distance learning program.



Chris Hemphill is working for Dr. Silvana Paula-Moraes under Marcelo Rabelo in the Entomology lab. Chris is currently studying for his bachelor's degree in Plant Science.



Annette Black is currently finishing up in the Masters Certificate Program for Ecological Restoration. She is working with Dr. Mike Mulvaney in cropping systems with soy, cotton, peanuts, and carinata. Next spring she will begin her degree in Agro-Ecology.



Matt Fineout comes to UF/WFREC to work in the Cropping Systems department. Matt will be assisting Dr. Mike Mulvaney with his research on carinata. This fall he will pursue a degree in Plant Science at the University of Florida.

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Sara Hunt, a UF student at the Milton campus, will complete her degree in Natural Resource Conservation this fall. She is a summer intern for Dr. Ajay Sharma doing research on a burn study to determine long term effects of different fire regimes on longleaf pine growth.

Brandon Korinchak has started with Dr. Unruh this summer mowing the turfgrass plots, taking samples, and recording data. In the fall Brandon will begin working on his degree in Natural Resource Conservation.



Marcelo Mendes Rabelo is a Ph.D. student from Universidad Federal De Viscosa in Brazil. He is working in Dr. Silvana Paula-Moraes research program as a visiting researcher for two years.



Supreet Kaur is an undergraduate student from Microbiology & Cell Science. She is here as a part of a summer research program funded by the NSF and the USDA. Supreet is working under the supervision of Dr. Silvana Paula-Moraes.



Other new employees include **Barbara Cory** and **Kelsea Heider** as summer interns for Dr. Miller and Dr. Deitch respectively.



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NATIONAL GOLF DAY & Community Service Project

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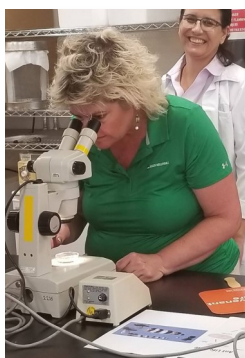
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Dr. Bryan Unruh, WFREC Associate Director and Turfgrass Scientist, participated in the 11th Annual National Golf Day & Community Service Project in Washington, D.C. on April 23-25th. National Golf Day celebrates the game's \$84.1 billion economy, nearly \$4 billion annual charitable impact and many environmental and fitness benefits. The event included more than 300 golf industry leaders meeting with members of Congress representing 40 states to discuss golf's 15,000+ diverse businesses, two million jobs impacted, tax revenue, and tourism value. The Community Service Project included 175 participants across 18 projects focused on beautification, preservation, and helping the National Park Service with turf deferred maintenance.



Campus *Visitors*

On June 11th a group of young men from the Goodwill Easterseals of the Gulf Coast visited the Jay REC to learn about agriculture, entomology, and job opportunities in turfgrass. We hope these young men enjoyed their visit with us, and were excited to learn some of what we do out here at WFREC.



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24th Annual UF/IFAS Gulf Coast Turfgrass Expo & Field Day

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The 24th Annual Gulf Coast Turfgrass Expo & Field Day was held on June 20th. Although the temperature reached in the low 90's many turfgrass professionals and homeowners attended the field day. We had excellent speakers here to present topics regarding turfgrass management.



We rely heavily on sponsorships for the field day to provide breakfast and lunch as well as all the extras that our attendees receive while here at the WFREC. A huge thank you to all the sponsors that step up each year!



Our exhibitors are extremely important to this event. Their participation helps offset the costs of the field day and turfgrass research. Exhibitors were able to exhibit their products and services to turfgrass professionals from all segments of the industry.



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SEE YOU ALL NEXT YEAR FOR THE 25th TURFGRASS Expo

2018 Upcoming Events

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WFREC Seminar Series: Dr. Silvana Paula-	July 24
Moraes Extension Farm Field Day	August 10
UF Milton Campus Student Orientation & Back to School Bash	August 22
Santa Rosa County Farm Tour	October 23
Farm to City	November 19 & 20

UF/WFREC Holidays & Academic Program Calendar

Classes Begin Summer B— Monday, July 2nd
Independence Day (Closed) – Wednesday, July 4th
Summer B Classes End—August 10th
Fall Classes Begin—August 22nd
Labor Day (Closed) – Monday, September 3rd
UF Homecoming (Closed) - November 2nd
Veteran's Day (Closed)—November 12th



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