



July 11, 2019

Welcome to SWFREC Update E-news! This newsletter is distributed biweekly and contains news about the center and its faculty and staff, program research updates, and upcoming events.

Web site: <https://swfrec.ifas.ufl.edu/>

Social media:  

New Vegetable Horticulturist Named

Dr. Phillip Williams of Clemson University has been named assistant professor of vegetable horticulture at SWFREC. Dr. Williams currently works as program coordinator at the Edisto Research and Education Center in Blackville, South Carolina. He earned his Ph.D. in plant and environmental sciences and his B.A. in biology (plant biology concentration) from Clemson. He received his master's of agriculture (agronomy and soils) from Auburn University in Alabama. Dr. Williams grew up on a 1,000-acre row crop family farm in South Carolina, which gained him experience in everything from machinery operation and maintenance to budgeting and agronomic practices. His candidate interview seminar was titled "Sustainability Managing Crops Using Technology and Cultural Practices without Yield or Quality Reductions." Dr. Williams will begin at SWFREC August 1.



SWFREC Well Represented at FASABE

Four different SWFREC faculty, staff, and students made presentations at the Florida Section of the American Society of Agricultural and Biological Engineers 2019 Annual Conference in Delray Beach in late June:

- Water resources post-doctoral associate Rajendra Sishodia: “Hydrologic and water quality benefits of compact bed geometry for vegetable production.” He also served as program vice-chair for the conference.
- Precision ag Ph.D. student Shirin Ghatrehsamani: “Evaluation of mobile heat treatment system for treating in-field HLB-affected trees by analyzing biosensor survival rate.”
- Precision ag engineer Victor Partel: “Automated system for monitoring Asian citrus psyllid in orchards.”
- Precision ag engineer Leon de Moraes Nunes: “Low cost cow feeding behavior monitoring system using recurrent neural networks.”
- Ag and biological engineer Dr. Sanjay Shukla: “Win-win solutions for improved economic and environmental outcomes.”
- During the conference awards banquet, Dr. Shukla received the group’s 2019 Distinguished Achievement Award, while precision ag engineer Dr. Yiannis Ampatzidis received the 2019 Outstanding Young Extension Worker Award.

Peer-reviewed Journal Articles

- “Rootstock effects on metabolite composition in leaves and roots of young navel orange (*Citrus sinensis* L. Osbeck) and pummelo (*C. grandis* L. Osbeck) trees” (plant physiologist Dr. Ute Albrecht and post-doctoral research associate Indu Tripathi are first and second authors, respectively). *Trees: Structure and Function*, 33(1). To read the full article, click here: <https://swfrec.ifas.ufl.edu/docs/pdf/plant-physiology/2018-10-03-Albrecht-Tripathi-Kim-Bowman-Trees-Structure-Function.pdf>.
- “Herbicide exposure to crops: making a foe out of a friend” (weed scientist Dr. Ramdas Kanissery is author). *Acta Scientific Agriculture*, 3(5). To read full article, click here: https://swfrec.ifas.ufl.edu/docs/pdf/weed-science/2019-05-05_Kanissery_ASAG-03-0456.pdf.
- “Reciprocal influences of rootstock and scion citrus cultivars challenged with *Ca. Liberibacter asiaticus*” (plant physiologist Dr. Ute Albrecht is first author). *Scientia Horticulturae*, 254. To see read the full article, click here: <https://swfrec.ifas.ufl.edu/docs/pdf/plant-physiology/2019-05-05-Albrecht-Bowman-Scientia-Horticulturae.pdf>.
- “UAV-based remote sensing technique to detect citrus canker disease utilizing hyperspectral imaging and machine learning” (precision ag post-doctoral research associate Jaafar Abdulridha, citrus pathologist Dr. Ozgur Batuman, and precision ag engineer Dr. Yiannis Ampatzidis are first, second, and third authors, respectively). *Remote Sensing*, 11. To read full article, click here: <https://swfrec.ifas.ufl.edu/docs/pdf/precision-ag-eng/2019-06-08-Abdulridha-Batuman-Ampatzidis-Remote-Sensing.pdf>.

- “Preharvest abscisic acid application to alleviate chilling injury of sweet basil (*Ocimum basilicum* L.) during cold storage” (plant physiology post-doctoral associate Aditi Satpute, biological scientist Bo Meyering, and Dr. Ute Albrecht are first, second, and third authors, respectively). HortScience, 54(1).

Chapter

Natural resource economist Dr. Tara Wade co-authored a chapter of the USDA Agricultural Resources and Environmental Indicators, 2019. Her chapter is called “Crop Production Management: Tillage Practices.” To see the full document, click here: <https://www.ers.usda.gov/publications/pub-details/?pubid=93025>. Dr. Wade’s chapter is 2.12.

Extension Articles

- “Performance of *Tamarixia radiata* in commercial citrus” (entomologist Dr. Jawwad Qureshi and former entomologist Dr. Philip Stansly are co-authors). Citrograph, 10(3). To read full article, click here: <https://swfrec.ifas.ufl.edu/docs/pdf/entomology/2019-Qureshi-Stansly-Citrograph-V10-N3-P62.pdf>.
- “An important reminder on citrus tristeza virus” (citrus horticulturist Dr. Ozgur Batuman is second author). Citrus Industry, May 2019. To read full article, click here: <https://swfrec.ifas.ufl.edu/docs/pdf/citrus-pathology/2019-05-Batuman-Citrus-Industry.pdf>.
- “Precision agriculture technologies in citrus” (precision ag engineer Dr. Yiannis Ampatzidis is author). Citrus Industry, June 2019. To read full article, click here: <https://swfrec.ifas.ufl.edu/docs/pdf/precision-ag-eng/2019-06-Ampatzidis-Citrus-Industry.pdf>.
- “Organic and conventional ACP management” (entomologist Dr. Jawwad Qureshi and former entomologist Dr. Philip Stansly are co-authors). Citrograph, 10(3). To read full article, click here: <https://swfrec.ifas.ufl.edu/docs/pdf/entomology/2019-Qureshi-Stansly-Citrograph-V10-N3-P66.pdf>.
- “Update on brassinosteroids for HLB management” (citrus horticulturist Dr. Fernando Alferez is first author). Citrus Industry, June 2019. To read full article, click here: <https://swfrec.ifas.ufl.edu/docs/pdf/citrus-hort/2019-06-Alferez-Citrus-Industry.pdf>.
- “Plant biostimulants: definition and overview of categories and effects” (plant physiologist Dr. Ute Albrecht is author). UF/IFAS EDIS, HS1330. To read full article, click here: <https://swfrec.ifas.ufl.edu/docs/pdf/plant-physiology/2019-05-Albrecht-EDIS-H1330.pdf>.
- “Understanding glyphosate formulations” (weed scientist Dr. Ramdas Kanissery and lab technician Camille McAvoy are first and fourth authors, respectively). Citrus Industry, June 2019. To read full article, click here: <https://swfrec.ifas.ufl.edu/docs/pdf/weed-science/2019-06-Kanissery-Citrus-Industry.pdf>.

Upcoming Events:

July 17, 2019, 10:00am-1:00pm

SWFREC Foundation Board Meeting

SWFREC

To RSVP, contact Jennifer at 239-658-3415 or jderleth@ufl.edu.

July 24, 2019, 8:30am-4:30pm

Certified Pile Burner Training/Exam

SWFREC

Cost is \$50. Course limited to 50 people. For more information and registration form, click here: https://swfrec.ifas.ufl.edu/docs/pdf/events-agendas/2019-07-24-FL_Certified_Pile_Burner_Training.pdf.

August 14-15, 2019

Citrus Expo and Vegetable and Specialty Crop Expo

Lee Civic Center, North Fort Myers

SWFREC will have six speakers at the event: for citrus, horticulturist Dr. Fernando Alferez, soil and water scientist Dr. Kelly Morgan, and plant physiologist Dr. Ute Albrecht; for vegetables, pathologist Dr. Pam Roberts, precision ag engineer Dr. Yiannis Ampatzidis, and food science state specialized extension agent Matt Krug.

For the full program and registration information, click here: <http://citrusexpo.net/2019-seminar-program-2/>.

Julie A. Carson
Marketing and Communications Specialist
UF/IFAS Southwest Florida Research and Education Center
2685 SR 29 North
Immokalee, FL 34142
P: 239-658-3462
F: 239-658-3469
carsonj@ufl.edu
<http://swfrec.ifas.ufl.edu>