



January 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:  

Peer-reviewed Publications:

1. Weed scientist Dr. Ramdas Kanissery and graduate assistant Biwek Gairhe authored "Evaluation of Liquid CO₂ as a Pressurizing Agent for Effective and Long-term Pesticide Sprays," which was published in the journal *Advances in Crop Science and Technology* in December. To see the article, click here: https://swfrec.ifas.ufl.edu/docs/pdf/weed-science/2018-12-Gairhe_Kanissery-AdvCropSciTech.pdf.



Gairhe

2. Precision ag postdoc research associate Dr. Jaafar Abdulridha and assistant professor Dr. Yiannis Ampatzidis are two authors on the article "A Remote Sensing Technique for Detecting Laurel Wilt Disease in Avocado in Presence of Other Biotic and Abiotic Stresses," which was published in the journal *Computers and Electronics in Agriculture* this month. To see the article, click

here: https://swfrec.ifas.ufl.edu/docs/pdf/precision-ag-eng/publications/Abdulridha_etal_20181209_Elsevier.pdf.



Abdulridha

In Citrus Industry: The January issue of Citrus Industry magazine includes two articles related to SWFREC faculty. First, the UF/IFAS Citrus State article, “Digging Deeper for HLB Answers,” written by senior vice-president Dr. Jack Payne, spotlights research being conducted by soil microbiologist Dr. Sarah Strauss. She is utilizing gene sequencing technology to study the relationship between soil and citrus tree performance. To see the article, click here: https://swfrec.ifas.ufl.edu/docs/pdf/news-items/2019-01-Citrus_Industry-Payne-Strauss.pdf. Second, entomologist Dr. Jawwad Qureshi and citrus horticulturist Dr. Fernando Alferez were two authors of an article titled “HLB Reduction Strategies.” To see the article, click here: https://swfrec.ifas.ufl.edu/docs/pdf/news-items/2019-01-Citrus_Industry-Qureshi-Alferez.pdf.



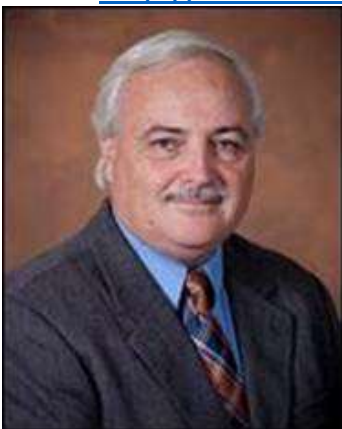
Spotlight on Citrus Research: In December’s Florida Grower Citrus Annual magazine, editor Frank Giles included three projects by SWFREC faculty members in his Research Roundup article titled “A Sneak Peak at Some of the Recent CRDF-funded Studies”: Automated Root Mapping to Enhance Field Trial Evaluation of Citrus Rootstocks in the HLB Era (precision ag engineer Dr. Yiannis Ampatzidis), “Citrus Row Middle Management to Improve Soil and Root Health” (soil microbiologist Dr. Sarah Strauss), and “Comparison of Field Performance of Citrus Trees on Rootstocks Propagated by Seedlings, Cuttings, and Tissue Culture” (plant physiologist Dr. Ute Albrecht). To see details about these projects, click here: https://swfrec.ifas.ufl.edu/docs/pdf/news-items/2018-12-Florida_Grower-Giles_Ampatzidis_Strauss_Albrecht.pdf



Precision Ag Tour: Florida Grower magazine hosted a precision ag bus tour in December in central Florida to visit farms that are utilizing technology to improve productivity and efficiency. Precision ag engineer Dr. Yiannis Ampatzidis demonstrated a drone and its use in ag and a smart vision herbicide applicator that only targets weeds.



HLB Interview: Center director and soil and water scientist Dr. Kelly Morgan was interviewed by Citrus Industry News in December about treatment of citrus trees affected by HLB. He explained the importance of managing soil pH and how it affects the ability of trees to take up nutrients. To read a short article and hear the full interview, click here: <http://citrusindustry.net/2018/12/31/manage-soil-ph-and-nutrition-for-hlb/>.



EDIS Article: “Applications of Artificial Intelligence for Precision Agriculture” by precision ag engineer Dr. Yiannis Ampatzidis has been published on the UF/IFAS Extension Electronic Data Information Source (EDIS). To see the article, click here: https://swfrec.ifas.ufl.edu/docs/pdf/precision-ag-eng/publications/Ampatzidis_UF-IFAS-AE529.pdf.

Upcoming Events:

Citrus Squeezer: “Scouting and Managing Citrus Diseases”

January 16, 2019, 10:00am-1:00pm

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SWFREC citrus pathologist Dr. Ozgur Batuman is among the speakers and will present “Citrus Greening: Scouting, Symptoms, Life Cycle, Epidemiology, Damage, Management.” For complete agenda and registration information, click

here: https://swfrec.ifas.ufl.edu/docs/pdf/events-agendas/2019-01-16_Scouting-Managing-Citrus-Diseases.pdf.

Discussion of Local Agricultural Issues with Legislators

February 1, 2019, 10:00am-1:00pm

Primary topics will include the effects of NAFTA, the Farm Bill, water quality, and algae on agricultural interests. The program will include a discussion led by legislators and a grower panel discussion. To see the agenda and speaker bios and for registration information, click

here: <https://drive.google.com/file/d/1D8HVmtk4A5j-RLAm3nSn849e1Sy3qqh5/view>.

Florida Certified Pile Burner Program

February 6, 2019, 8:30am-4:30pm

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Seating is limited. For agenda and to register, click

here: <https://drive.google.com/file/d/1NBFMdZDfbsC81kGb2kofqU2szIFAGeBi/view>.

Citrus Squeezer: “All You Need to Know about Scouting and Management of Citrus Insect Pests”

February 14, 2019, 10:00am-1:00pm

SWFREC

SWFREC entomologist Dr. Jawwad Qureshi will present “Scouting and Managing Citrus Pests and Beneficials” and senior biological scientist Barry Kostyk will present “Scouting and Managing Citrus Rust Mites.” For complete agenda and to register, click

here: https://swfrec.ifas.ufl.edu/docs/pdf/events-agendas/2019-02-14_Scouting_Management_Citrus_Insect_Pests.pdf.

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