

Seminar

Plant Growth Regulator (PGR)/Biostimulant Use in Citrus and Other Fruit Crops & Review of Past and Current Results From Ground and Foliar Applied Fertilizer Management Trials on HLB Affected Trees

Location: Southwest Florida Research and Education Center, Immokalee

Date & time: Thursday, 26 July 2018, 10:00 AM – 12:10 PM

Speakers: Dr. Craig Campbell with Valent USA and Dr. Kelly Morgan with UF-IFAS

Program Coordinator: Dr. Mongi Zekri, UF-IFAS

Program Sponsor: ?

Pre-registration is required. No registration fee and lunch is free. To reserve a seat, call 863 674 4092, or send an e-mail to Dr. Mongi Zekri at maz@ufl.edu

2 CEUs for Certified Crop Advisors (CCAs)

2 CEUs for Pesticide License Renewal

10:00 AM– 11:00 AM

PGR/Biostimulant Use in Citrus and Other Fruit Crops by *Dr. Craig A. Campbell, Senior Field R&D Scientist with Valent USA*

New and Novel Uses for PGRs on Specialty Crops, PGRs are Pesticides, PGRs used on Fruit Crops, Gibberellins, GA3 sprays to reduce fruit drop in oranges, GA3 sprays to increase fruit set in tangerines and hybrids, Sweet Orange Peel Firmness after GA3 Sprays, Blueberry: Improved Set – Frost Rescue, Fruit Drop Management with Aviglycine (ReTain®), Increasing Fruit Set with Aviglycine, Auxins, Abscisic Acid (ABA) - last major class of PGR developed commercially, Cytokinins - Cell division; Counteract apical dominance; Branching agent; Delay of senescence, MaxCel PGR used to Promote Bud Break and Branching in Citrus Nursery Trees, Hydrogen Cyanamide, Ethylene (*and Ethylene Management*), Precision Application of PGRs is Important

11:00 AM - 11:10 AM Break

11:10 AM – 12:10 PM

Review of Past and Current Results From Ground and Foliar Applied Fertilizer Management Trials on HLB Affected Trees by *Dr. Kelly Morgan, Professor in Crop Nutrient and Irrigation Management with UF-IFAS*

Effect of citrus greening (HLB) on nutrient and water uptake, impact of HLB on root damage: decline in Ca and Mg, effect of foliar nutrient applications on tree health and yield, effect of soil pH on plant nutrient uptake, foliar nutrient rates, effect of potassium nitrate on leaf mineral concentrations, effect of foliar sprays of Mn and Zn on new growth, effect of nutrient forms on nutrient concentrations, lower root density is related to higher pH, effect of soil pH on nutrient status, irrigation water and soil pH, effect of irrigation on nutrient availability