

Ag Tech Expo

May 10-11, 2021
Virtual Event

Registration

Registration Fees:

Students: \$ 25

Participants: \$ 100

Vendors: \$ 250

Sponsors

The Future of Farming

Automation

Artificial Intelligence

Environmental Services

Genomic

Precision Spraying

Innovations in Pest / Disease Management

Innovations in Water and Nutrient Management

Precision Agriculture

Protected Agriculture

Robotics

Sustainability

Traceability and Blockchain

UAVs and Sensing

Water Management



Information: <https://swfrec.ifas.ufl.edu/AgTechExpo2021>

DAY 1 - Monday, May 10, 2021

9:00 AM - Opening Remarks

J. SCOTT ANGLE, PH.D.

Vice President for Agriculture and Natural Resources
University of Florida Institute of Food and Agricultural Sciences (UF/IFAS)

9:15 AM - Keynote Speaker

DR. RANVEER CHANDRA, *Microsoft*

Data-driven agriculture: How the Cloud and AI can help reimagine food from seed to plate.

10:00 AM – 12:00 PM - Morning Sessions

Precision Agriculture / Sustainability

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| 10:00 am | Miquel Clavijo , <i>US Sugar</i> and Jason Hallstrom , <i>Spectoco</i> - Leveraging IoT and Remote Sensing Technology at US Sugar. |
| 10:30 am | Louis DeMaso , <i>Lipman Family Farms</i> - Sustainability Case Study: Precision Agriculture for Maximum Resource-Use Efficiency. |
| 11:00 am | <u>Dr. Sanjay Shukla</u> , <i>UF IFAS SWFREC</i> - Streamlining growing environment for fresh produce with compact bed geometry system. |
| 11:30 am | <u>Dr. Tony Mucciardi</u> , <i>Tree Radar</i> – TRU GPR Non-Invasive Imaging of Roots for Generating 3D Root Morphology Maps and Calibration of IR Imagery. |

UAV

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| 10:00 am | Nathan Stein , <i>Pix4D</i> - A good map is the first step in digitizing your field. |
| 10:30 am | Dr. Spyros Fountas , <i>AUA, Greece</i> - The role of UAVs for crop yield estimation. |
| 11:00 am | <u>Dr. Yiannis Ampatzidis</u> , <i>UF IFAS SWFREC</i> - Agrovie: AI-based technology for precision agriculture. |
| 11:30 am | Drew Baustian , <i>Micasense</i> - Image Classification, Irrigation Monitoring & More Using Multispectral & Thermal Imaging. |

Genomics

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| 10:00 am | <u>Dr. Tong Geon Lee</u> , <i>UF IFAS GCREC</i> - CRISPR: A technical breakthrough for crop research. |
| 10:30 am | <u>Dr. Samuel Hutton</u> , <i>UF IFAS GCREC</i> - Applications of Marker Assisted Selection in the UF/IFAS Tomato Breeding Program. |
| 11:00 am | <u>Dr. Vance Whitaker</u> , <i>UF IFAS GCREC</i> -Genomic Prediction in Strawberry Breeding. |
| 11:30 am | <u>Dr. Marcio Resende</u> , <i>UF IFAS Department of Horticulture</i> - Genomics and phenomics applied to sweet corn breeding. |

12:00 PM – 2:00 PM - Break and Technology Show

2:00 PM – 4:00 PM - Afternoon Sessions

Robotics

- 2:00 pm **Dr. Pal Johan From**, *Saga Robotics* - Thorvald - an autonomous multipurpose platform for agriculture.
- 2:30 pm **Bob Pitzer**, *HCR* - Robotic strawberry harvesting.
- 3:00 pm **Dr. Stavros Vougioukas**, *UCDavis* - Human and ag-robot collaboration for fruit harvesting.
- 3:30 pm **Dr. Manoj Karkee**, *WSU* - Tree fruit harvesting: Accomplishments and challenges.

Protected Agriculture

- 2:00 pm **Dr. Kevin Folta**, *UF IFAS Department of Horticulture* - Closed Controlled Environment.
- 2:30 pm **Jennifer Waxman**, *Executive Director, The Villages Grown™* - Bridging Agriculture and Wellness — How CEA may be the next movement towards the Food-as Medicine approach.
- 3:00 pm **Bob Hochmuth**, *UF IFAS NFREC* - Protected Ag- Technology Under Cover.
- 3:30 pm **Federico Boscolo**, *Cultiva Farms* - Sustainable solution for baby leaf production on the East Coast

Innovations in Water and Nutrient Management

- 2:00 pm **Doug Crawford**, *BMP Logic* - Real-time irrigation management with wireless soil moisture sensor - adoptions in North America and lessons learned.
- 2:30 pm **Randy Moss**, *Lipman Family Farms* - Grower's perspective on technology adoption in managing water and nutrient over three decades.
- 3:00 pm **Dr. Sanjay Shukla**, *UF IFAS SWFREC*, Applying circular economy concept to enhance nutrient treatments from agricultural systems.
- 3:30 pm **Dr. Sandra Guzman**, *UF IFAS IRREC* - New technologies for efficient irrigation.

4:00 PM – 5:00 PM - Technology Show

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DAY 2 - Tuesday, May 11, 2021

9:00 AM - Opening Remarks

DR. KELLY MORGAN

Professor and Center Director, Southwest Florida Research and Education Center (SWFREC)
University of Florida Institute of Food and Agricultural Sciences (UF/IFAS)

9:15 AM - Keynote Speaker

DR. JONATHAN BENTZ and BARRIE MULLINS, NVIDIA

The future of Agricultural Innovation is AI

10:00 AM – 12:00 PM - Morning Sessions

Automation Artificial Intelligence, and Precision Spraying

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| 10:00 am | <u>Dr. Lynn M Sosnoskie</u> , Cornell University, - Review of weed management technology. |
| 10:30 am | <u>Dr. Nathan Boyd</u> , UF IFAS GCREC - Weed Management for the Future. |
| 11:00 am | Dr. Thanos Balafoutis , IBO, Greece - Variable rate technologies for precision spraying. |
| 11:30 am | Keith Hollingsworth , CC and/or <u>Dr. Yiannis Ampatzidis</u> , UF IFAS SWFREC - Smart tree crop sprayer utilizing sensor fusion and AI. |

Environmental Services

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| 10:00 am | Benita Whalen , Water and Environmental Manager, Florida Cattlemen's Association – Paying for Green? Environmental Services in Practice. |
| 10:30 am | <u>Dr. Sanjay Shukla</u> , UF IFAS, SWFREC, and Linda McCarthy , Lykes Bros Inc. Payment for water storage and treatment services program in the Everglades Basin– From pilot to large-scale implementation. |
| 11:00 am | Ernie Shea , Solutions from the Land - Florida Climate Smart Agriculture Working Group Overview. |
| 11:30 am | <u>David M. (Max) Williamson</u> , Williamson Law + Policy PLLC – Agriculture Carbon Markets. |

12:00 PM – 2:00 PM - Break and Technology Show

2:00 PM – 4:00 PM - Afternoon Sessions

Automation and Pest / Disease Management

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| 2:00 pm | <u>Dr. Natalia Peres</u> , UF IFAS GCREC – Ultraviolet Robot for control of Powdery mildew in Strawberry. |
| 2:30 pm | <u>Dr. Ozgur Batuman</u> , UF IFAS SWFREC - Development of a novel automated delivery system for citrus trees. |
| 3:00 pm | Michael Ott , Rantizo - Drone Spraying, the Future Present of Agriculture. |
| 3:30 pm | Liron Brish , Farm Dog – Easily digitizing your in-field workforce - the foundation for efficiency and effectiveness. |

Water Management / Mixed session

2:00 pm	Dr. George Vellidis , UGA - SmartIrrigation – a Pathway to Sustainable Intensification.
2:30 pm	Dan Urban , Analytics Lead, CERESIMAGING - Managing the variability in transpiration and vigor with aerial imagery.
3:00 pm	Grant Allen , C&M North America (Checchi & Magli) - Vegetable/Melon Transplanting - Speed, Precision, Automation, etc.
3:30 pm	Mark Campbell , Produce IQ - Streamline an inefficient sales process

Traceability / Blockchain

2:00 pm	Yolanda Ramirez , VP Customer Development and Analytics, AgTools – Using data to improve market access and profit margins.
2:30 pm	Bristol Wells , Highlands Agriculture - Virtualizing the Business of Ag with Highland Ag Solutions.
3:00 pm	Creg Fielding , Fusionware - Vertically Integrated Supply Chain - Get out of spreadsheet hell!
3:30 pm	Cale Teeter , Microsoft – Blockchain.

4:00 PM – 5:00 PM - Round Table Discussion and Closing

Panelists - **Jamie Williams**, Director Operations of Lipman Family Farms

- **Chuck Obern**, Owner, C& B Farms
- **Paul Meador**, Everglades Harvesting
- **Charlie Lucas**, Consolidated Citrus
- **Ken McDuffie**, US Sugar

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