A Conference on Unmanned Systems in Agriculture

March 28-29, 2013
University of Georgia
Tifton Campus
Conference Center
Tifton, GA.

Focus on Efficiency
More Seeds Planted, More Rows Tilled
Reduced Skips and Overlaps
Work in Poor Visibility
Better Yields, Energy Savings, Enhanced Safety
Disease Detection and Prevention

United States Agriculture Snapshot
922 Million Acres of Farmland
2 Million Family Farms in the U.S.
Disease Costs Growers and Consumers Billions Each Year
20-40% of Potential Food Production is Lost Every Year to Pests and Disease

Ms. Gretchen West- Executive Vice President, AUVSI
Mr. Kent Wolfe- Director, Center for Agribusiness and Economic Dev.
Mr. Colin Das- John Deere
Dr. Reza Ehsani- University of Florida Citrus Research Center
Mr. Young Kim -General Manager, BOSH Precision AG
Dr. John Beasley- University of Georgia
Gary McMurray- Georgia Tech Research Institute
Dr. Eric Corban- Guided Systems Technologies
Mr. Richard Holloman- ElleVision
Mr. David Dournhout- Prospero Autonomous Micro Planter
Rep. Austin Scott- Georgia’s Eighth Congressional District (invited)
Gary W. Black- Commissioner, Georgia Department of Agriculture (invited)

Full Agenda and Topics on Next Two Pages

Register Now:
http://www.ugatiftonconference.org/
For More Information:
Karen McIlroy- kmcilroy@uneqconsulting.com
AGENDA - Day 1

Gretchen West, Executive Vice President, AUVSI National
Precision Agriculture - The New Revolution in UAS
A recent AUVSI study shows that precision agriculture will revolutionize the UAS commercial market. Case studies around the world show that like Japan the US agriculture market will benefit greatly once UAS is cleared for the national airspace.

Mr. Kent Wolfe - Director, Center for Agribusiness and Economic Development

Dr. Reza Ehsani - University of Florida, Citrus Research Center
Applications of Small UAVs in Agriculture
This presentation reviews recent developments in the field of low-altitude, high-resolution aerial imaging using small unmanned aircraft and highlights some of the applications for site-specific crop management, disease detection, and inventory managements in different crops.

Gary McMurray, Food Processing Technology Division, Georgia Tech Research Institute
Application of Robotics for Early Detection of Diseases in Agriculture
An estimated 12% of crop losses worldwide are due to diseases. Visible symptoms do not normally occur for several days after the plant becomes infected. To reduce crop loss, a new paradigm is proposed for disease detection based on individual plant data collected by a mobile robot.

Mr. Colin Das - John Deere
Autonomous Tractor Operation for Orchard Maintenance
The system uses a remote, human supervisor to manage a fleet of autonomous tractors. The tractors have optimal path planners and perception systems to increase efficiency, detect obstacles, and determine clear paths for travel. The talk will conclude with results from a two-tractor system currently being tested in a Florida orange grove.

Mr. Young Kim - General Manager, BOSH Precision AG
Federal Aviation Administration + Unmanned Aircraft Systems for Agriculture = Win for USA Farmers

Lunch Keynote - Representative Austin Scott, Georgia’s 8th Congressional District (invited)

Dr. Eric Corban - Guided Systems Technologies

Mr. Richard Holloman - ElleVision
Tethered, Steerable Aerostats for Agriculture Applications

Exhibit Area Networking/Outdoor Demonstrations

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AGENDA- Day 2

Mr. Steve Justice- Director, Georgia Aerospace COI
GA Aerospace COI Success Stories
The Georgia Center of Innovation (COI) for Aerospace acts as a catalyst, creating opportunities for aerospace companies and their suppliers by connecting them to new technologies, university research, potential business collaborators and current industry information. This talk will explain the process of working with the Aerospace COI and provide success stories.

Dr. Joe West- UGA-Tifton

David Dournhout
Prospero, the Autonomous Micro Planter

Dr. John Beasley, University of Georgia
“Eye in the Sky”: What UAV Technology May Reveal About What’s Happening in a Peanut Field
When peanut farmers walk their fields it is difficult to determine the “big picture” of what may be going right, or wrong. Diseases, insect populations, nematodes, nutrient and soil fertility imbalance, are difficult to determine. UAV technology opens up a whole new arena for managing peanut production on a field-scale basis and could allow maximum yield and profit potential.

Mr. Donnie Smith- Director, Georgia Agribusiness COI
GA Agribusiness COI Success Stories
The Center of Innovation for Agribusiness provides expertise and connections to help Georgia’s agribusiness industry grow and compete globally by connecting clients directly to key resources, emerging technologies and university research. This talk will explain the process of working with the Aerospace COI and provide success stories.

Lunch Keynote: Gary W. Black- Commissioner, Georgia Department of Agriculture (invited)

Panel Discussion Q&A.
Gretchen West- AUVSI National; Mr. Kent Wolfe- Center for Agribusiness and Economic Development; Dr. Reza Ehsani- University of Florida; Mr. Colin Das- John Deere, Dr. Eric Corban- Guided Systems; Mr. Richard Holloman, ElleVision; Mr. Young Kim- BOSH; Mr. Steve Justice- Georgia Aerospace COI; Mr. Donnie Smith- Georgia Agribusiness COI

Exhibit Area Networking/ Outdoor Demonstrations

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