

**INNOVATIONS IN
GIS & GPS TECHNOLOGIES FOR
INCREASED AGRICULTURAL
PRODUCTIVITY**

REGISTRATION

All attendees *must* be registered by **July 27th**. Remember, there are *no fees* associated with this symposium. However, due to limited availability, registration will be on a first-come, first-serve basis.

Register using one of the following methods:

- 1) **Email:** Email Justin Harris at justin98@ufl.edu
- 2) **Fax:** Fill out the registration information below and fax to (813) 707-7399, Attn: Justin Harris
- 3) **Phone:** Call Justin Harris at (813)757-2183
- 4) **Mail:** Mail the following information to the address below.

Name _____
 Company Name _____
 Address _____
 City _____ State _____
 Zip Code _____ County _____
 Phone _____ Fax _____
 E-Mail _____

Registration Will Be Confirmed Via E-mail

Mail to: Attention: Justin Harris
 University of Florida - IFAS
 Plant City Campus
 1200 N. Park Rd.
 Plant City, FL 33563

Questions or concerns, please contact:
 Justin Harris or Dr. Amr Abd-Elrahman:
 (813) 757-2183, FAX (813) 707-7399
justin98@ufl.edu or aamr@ufl.edu

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**INNOVATIONS IN
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Farming into the Future



Farmers, Surveyors & Agricultural Specialists

July 29, 2009
 7:30 a.m. - 3:30 p.m. EST
 At the Gulf Coast
 Research and Education Center (GCRC)
 Wimauma, FL 33598

Presented by:



INNOVATIONS IN GIS & GPS TECHNOLOGIES FOR INCREASED AGRICULTURAL PRODUCTIVITY

Farming methods are rapidly changing with advances in technology. Now, more than ever, it is important to recognize, understand, and utilize these new technologies. They can maximize land use; minimize pesticides, herbicides and fertilizers; and maximize crop yield all while reducing costs. How does someone learn about these technologies? They come to the Symposium for Innovation in GIS and GPS Technologies for Increased Agricultural Productivity.

This one day symposium will teach you about current and future technologies. At the symposium, we plan to cover the following:

- Precision Guidance in Agriculture
- Autonomous Systems
- GPS Positioning
- GIS Mapping\Soil Testing
- Variable Rate Application
- IR Crop Monitoring

A live field demonstration of a precision-guided autonomous tractor is also planned. As an added bonus, breakfast and lunch will be provided.

SPEAKERS BIOS

Dr. Amr Abd-Elrahman is the Assistant Professor and Geomatics Program Advisor for the University of Florida Geomatics Program at the Plant City Campus. His major area of interest is Geographic Information Systems (GIS) and Remote Sensing, with emphasis on image processing, spatial database modeling, and web-based GIS data dissemination.

Jesse Chisholm has worked in the precision agriculture field for the last three years. As a Territory Account Manager for AutoFarm based out of Plant City, he helps top producers adapt techniques using state of the art GPS steering control systems in an effort to decrease their yearly input cost.

Lance Andre is a support specialist for eGPS Solutions. His background is in Global Navigation Satellite Systems (GNSS) where he has extensive experience with numerous RTK base stations and networks. In addition to his solid GPS and GIS background, he served 8 years in the U.S. Marine Corps and is a decorated veteran of both Operation Desert Shield and Operation Desert Storm.

Jason Raulerson is the local manager for Southern States. He has 5 years of experience in sampling and variable rate spreading. He prides himself on helping Florida farmers becoming more successful using environmentally sound techniques and reducing costs.

SYMPOSIUM AGENDA

Wednesday, July 29, 2009
(7:30 AM—3:30 PM)

7:30 - 8:15

Check-In, Continental Breakfast & Reception

8:15 - 8:30

Welcome (UF) and Overview of the Seminar –
Amr Abd-Elrahman, UF, Assist. Professor of Geomatics

8:30 - 9:15

Soil Testing and GIS Mapping –
Jason Raulerson, Southern States Coop

9:15 - 9:45

Variable Rate Application –
Jason Raulerson, Southern States Coop

9:45 - 10:00

Break

10:00 - 11:00

GPS Positioning: DGPS, RTK, & Network RTK
Lance Andre, eGPS Solutions, Inc.

11:00 - 12:00

Precision Guidance
Jesse Chisholm, AutoFarm

12:00 - 1:00

Lunch (provided)

1:00 - 2:00

Field Demonstrations
Jesse Chisholm, AutoFarm
Ryan Hood, Highland Tractor Company
Lance Andre, eGPS Solutions, Inc.
Jason Raulerson, Southern States Coop



Agenda continued—

2:00- 2:50

Future Technologies:

- *Autonomous Systems*
- *State Space Modeling with Rover Input*
- *IR Crop Monitoring*
- *Additional GNSS Constellations (Galileo, GLONASS, & COMPASS)*
- *Miscellaneous (yield monitors, lasers, etc.)*

Jesse Chisholm, AutoFarm

Lance Andre, eGPS Solutions, Inc.

Jason Raulerson, Southern States Coop

Amr Abd-Elrahman, UF, Assist. Professor of Geomatics

2:50- 3:05

Break

3:05- 3:30

Open Panel Discussion

Lance Andre, eGPS Solutions, Inc.

Amr Abd-Elrahman, UF, Assistant Professor of Geomatics

Jesse Chisholm, AutoFarm

Jason Raulerson, Southern States Coop

LOCATION ADDRESS AND PHONE NUMBER

Gulf Coast Research and Education Center (GCREC)

14625 County Road 672

Wimauma, FL 33598

(813) 634-0001

(Located on the south side of CR672/Balm Picnic Road
between 301 and SR 39)

Online directions to the GCREC can be found at:

<http://gcrec.ifas.ufl.edu/balmmapanndirections07.htm>