

# 2010 Sino-U.S. International Workshop on Intelligent Equipment for Precision Agriculture and Airborne Remote Sensing and Measurement for Agriculture

College Station, Texas, USA

December 2-9, 2010

## Workshop Chairperson

Dr. Yubin Lan, USDA-ARS-SPARC-APMRU, College Station, TX 77845, USA

## Organizing Committee

Dr. Wang Yingkuan, Chinese Society of Agricultural Engineering, International Journal of Agricultural and Biological Engineering (IJABE)

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## Conference Coordination

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## Welcome Message

Dear International Precision Agriculture and Remote Sensing Community:

It is a pleasure to announce the 2010 Sino-U.S. International Workshop on Intelligent Equipment for Precision Agriculture and Airborne Remote Sensing and Measurement for Agriculture to be held at the USDA-ARS Southern Plains Agricultural Research Center (SPARC), College Station, Texas, USA from December 2-9, 2010.

We welcome you to this Sino-US Workshop at College Station, where the USDA-ARS SPARC and Texas A&M University are located. Texas A&M University is the seventh-largest university with one of the largest main campuses in the U.S., and is also the site of the George Bush Presidential Library.

Traditional agriculture is advancing to modern and intelligent agriculture with the development of science and technology and social progress. Information technology plays a key role in this conversion, dealing with less controllability and stability because of regionality, seasonality and variability. Precision agriculture as a trend featured with digital, visual, networked and intelligent

agriculture is growing, as is the precision agricultural community across the world.

The 2010 Sino-U.S. International Workshop on Intelligent Equipment for Precision Agriculture and Airborne Remote Sensing and Measurement for Agriculture is envisaged to be a scholarly and professional symposium, with about 60 attendees from China and the U.S. Over a dozen experts and professors will be invited to present as key speakers. This workshop will provide a forum for presentations on the current state of intelligent equipment for precision agriculture research and applications, application of remote sensing and information technologies in agriculture. The conference will facilitate interactions among research scientists, producers, technology company representatives, equipment manufacturers, input dealers, agronomic consultants, software developers, educators, and government personnel.

During the workshop, an evening session will be held to seek for the possibility of building bilateral ties for future exchange and cooperation between Chinese and U.S. scientists and institutions.

We are looking forward to seeing you at the Sino-U.S. workshop on Intelligent Equipment for Precision Agriculture and Remote Sensing and Measurement Technology in College Station, Texas, USA.

Sincerely yours,



Dr. Yubin Lan, Agricultural Engineer, USDA-ARS-SPARC-APMRU

Chair of the 2010 Sino-US International Workshop on Intelligent Equipment for Precision Agriculture and Airborne Remote Sensing and Measurement for Agriculture

## Call for Abstracts and Papers

Abstracts for the 2010 Sino-US International Workshop on Intelligent Equipment for Precision Agriculture and Airborne Remote Sensing and Measurement for Agriculture may be submitted online to the email at [ijabecohost@gmail.com](mailto:ijabecohost@gmail.com) before the deadlines, September 28, 2010 for abstract submission, and before November 20, 2010 for full papers. Abstracts are limited to no more than 500 words. Abstracts will be reviewed for suitability based on scientific content, writing and clarity. Abstracts meeting these criteria will be accepted for presentation as either oral or poster presentations at the Workshop.

Authors of accepted abstracts will be entitled to present their research at the Workshop after payment of registration fees. They will also be entitled to submit full papers (more details later) to the IJABE (<http://www.ijabe.org>) in December, 2010. Full papers submitted to this Workshop will be published in IJABE if meeting the criteria of IJABE through peer review.

## Main Topics

Intelligent Equipments for Precision Agriculture  
 Airborne Remote Sensing (manned and unmanned)  
 Ground-based Remote Sensing  
 VRT (Variable Rate Technology) and Variable-rate application  
 Aerial application technology for crop production and protection  
 Spraying droplet measurements and DRT (Drift Reduction Techniques)  
 Electronic nose and VOC (Volatile Organic Compound) analyzer  
 Modeling, Geo-statistics, Geodata and software  
 Sensor Application in Managing In-season Crop Variability  
 Spatial Variability in Crop, Soil and Natural Resources  
 Remote Sensing Applications in Precision Agriculture  
 Engineering Technologies and Advances  
 Emerging Issues in Precision Agriculture (Energy, Biofuels, Climate Change)  
 Guidance, Auto Steer, and GPS Systems  
 Global Proliferation of Precision Agriculture and its Applications

## Principal Contact

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## Invited Speakers

Brad Fritz, PhD, Agricultural Engineer, USDA-ARS-SPARC-APMRU

Yufeng Ge, PhD., Texas A&M University

Fedro Zazueta, PhD, Professor, Associate CIO, President of CIGR, Office of Academic Technology, University of Florida

W. Clint Hoffmann, PhD, Agricultural Engineer, USDA-ARS-SPARC-APMRU

Yanbo Huang, PhD, Agricultural Engineer, USDA-ARS, Stoneville, Mississippi

Ron Lacey, PhD, Professor, Texas A&M University

Yubin Lan, PhD, Agricultural Engineer, USDA-ARS-SPARC-APMRU

Juan Lopez, Jr, PhD, Entomologist, USDA-ARS-SPARC-APMRU

Dan Martin, PhD, Agricultural Engineer, USDA-ARS-SPARC-APMRU

Sorin Popescu, PhD, Professor, Texas A&M University

Ruixiu Sui, PhD, Agricultural Engineer, USDA-ARS, Stoneville, Mississippi

Alex Thomasson, PhD, Professor, Texas A&M University

Steve Thomson, PhD, Agricultural Engineer, USDA-ARS, Stoneville, Mississippi

Chenghai Yang, PhD, Agricultural Engineer, USDA-ARS, Weslaco, Texas, USA