



18th World Congress of CIGR

International Commission of Agricultural and Biosystems Engineering

Sept. 16 — 19, 2014

Beijing, China

First Announcement 18th World Congress of CIGR

Agricultural & Biosystems Engineering - Upgrading Our Quality of Life

The XVIII World Congress of the International Commission of Agricultural and Biosystems Engineering (CIGR) will be held in Beijing, China from September 16 - 19, 2014. Preparation for the big event has been proceeding smoothly. The Preparatory Committee and the Secretariat of the Congress have been set up and appropriate staff and facilities allocated.

Sponsors

- International Commission of Agricultural and Biosystems Engineering (CIGR)
- Chinese Society for Agricultural Machinery (CSAM)
- Chinese Society of Agricultural Engineering (CSAE)

Co-sponsors

- China Association of Agricultural Machinery Manufacturers (CAAMM)
- China Food and Packaging Machinery Industry Association (CFPMA)
- Local government offices; local, regional and international associations, Other societies and institutions will be invited and added later.

Organizers

- Chinese Academy of Agricultural Mechanization Sciences (CAAMS)
- Chinese Academy of Agricultural Engineering (CAAE)
- China Agricultural University (CAU)

Theme

Agricultural and Biosystems Engineering - Upgrading Our Quality of Life

Time

September 16 - 19, 2014

Venue

Beijing

Congress Language

English

Scientific Program

- Plenary sessions with invited speakers
- Parallel oral and poster sessions
- Special sessions
- Exhibition and field trips

Main Topics

(1) Land and Water Systems Engineering

- Irrigation and Drainage Modeling
- Soil Sustainability
- Soil Conservation and Improvement
- Environmental Criteria for Land Use and Other Environmental Considerations
- Salinity, Water Treatment and Reuse and Contamination Control
- Wind Erosion, Water Erosion, Environmental Protection
- Water Saving and Productivity
- Water Management
- Landscapes and Ecosystem

(2) Machinery Engineering for Plant Production

- Strategy and Development of Agricultural Mechanization
- Innovation Technologies for Agricultural Equipment
- Tractors
- Harvesting Technology
- Fertilizing and Plant Protection
- R & D for Farm Machinery and Equipment
- Tillage and Seeding
- Automation Technology
- Environmental Impact



(3) Bioprocessing System Engineering

- Image Processing
- Postharvesting Technology
- Environmental Impact
- Sensors for Quality Assessment Control
- Food Packaging and Storage
- Separation Process
- Drying and Dehydration of Agro-products
- Food Quality
- Mathematical Modeling and Simulation for Food Processing
- Physical Properties of Agricultural products
- Thermal Processing, Chilling and Freezing
- Biotechnology

(4) Information Systems and Precision Farming

- ICT for Agriculture
- Crop Sensing
- Soil Sensing
- Weed Control
- KIS/DSS
- Data Acquisition and Management
- Field Robots
- Yield Sensing

(5) Rural Electricity and Renewable Energy

- Bioenergy Resources
- Biomass Handling and Processing
- Energy Efficiency
- Biogas
- Biomass Emissions and Other Environmental Considerations
- Liquid Biofuels - Biodiesel

(6) Farming buildings and Livestock Environmental Engineering

- Livestock Structures and Material Handling Equipment
- Precision Livestock Farming
- Livestock Environment and Waste Treatment-Water Quality, Air Quality, Odor Control

(7) Management, Ergonomics and System Engineering

- Farm management Planning and Calculation
- Safety and Ergonomics
- System Engineering

Call for Papers

The Congress will focus on the above-mentioned areas and contributions in those and the related areas are appreciated. Scientists, professors, practicing engineers, enterprises managers and students engaged in agricultural/biosystems engineering are encouraged to participate in this big event and are invited to submit paper proposals to the Congress. Detailed instructions for submitting abstracts will be in the 2nd announcement.

Preparation Office

The preparation office is located in CAAMS and the website of the Congress will be available soon. At present you may contact the Congress as follows:

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Based on the rich experiences of successfully hosting the 2004 CIGR international Conference • Beijing, the sponsors and organizers are confident that the 2014 World Congress will provide a fruitful and wonderful academic congress for scientists, engineers, managers and other professionals in the agricultural/biosystems engineering field from all over the world. Put the dates on your calendar now. More details will be available in the 2nd announcement.

For the 2008 Olympic Games, Beijing was made more beautiful and more attractive than ever before. A modern Beijing with ancient charm is ready to reach out her arms to welcome you.

Let's meet in Beijing at 18th World Congress of CIGR in 2014

