

The XVIII CIGR World Congress 2014 on Agricultural & Biosystems

Engineering -Upgrading Our Quality of Life

September 16 – 19, 2014, Beijing, China

The XVIII World Congress of the International Commission of Agricultural and Biosystems Engineering (CIGR) will be held in Beijing, China in 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 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: 16-17 September, 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 • Water Saving and Productivity
- Soil Sustainability • Water Management
- Soil Conservation and Improvement • Landscapes and Ecosystem
- Environmental Criteria for Land Use and Other Environmental Considerations
- Salinity, Water Treatment and Reuse and Contamination Control
- Wind Erosion, Water Erosion, Environmental Protection
- (2) Machinery Engineering for Plant Production
 - Strategy and Development of Agricultural Mechanization
 - Innovation Technologies for Agricultural Equipment
 - Tractors • Tillage and Seeding
 - Harvesting Technology • Automation Technology
 - Fertilizing and Plant Protection • Environmental Impact
 - R & D for Farm Machinery and Equipment
- (3) Bioprocessing System Engineering
 - Image Processing • Drying and Dehydration of Agro-products
 - Postharvesting Technology • Food Quality
 - Environmental Impact • Mathematical Modeling and Simulation for Food Processing
 - Sensors for Quality Assessment Control • Physical Properties of Agricultural products
 - Food Packaging and Storage • Thermal Processing, Chilling and Freezing
 - Separation Process • Biotechnology
- (4) Information Systems and Precision Farming
 - ICT for Agriculture • KISIDSS
 - Crop Sensing • Data Acquisition and Management
 - Soil Sensing • Field Robots
 - Weed Control • Yield Sensing
- (5) Rural Electricity and Renewable Energy

- Bioenergy Resources • Biogas
 - Biomass Handling and Processing • Biomass Emissions and Other Environmental Considerations
 - Energy Efficiency • 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 in 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.

Prof. Shujun Li

Executive Board Member of CIGR

Executive Vice-president of the CAAMS