Development of International Cooperation in ABE

3rd Regional Forum on Sustainable Agricultural Mechanization in Asia and the Pacific
3rd ASEAN Conference on Agricultural and Biosystems Engineering
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Introduction to CAAMS

History

1956
Founded as an research academy of agricultural machinery

1999
Transformed into a large-scale commercial enterprise

2009
2009: Became a subsidiary of SINOMACH

2011-2013
Took over 3 companies
Introduction to CAAMS

Number of Staff

- Total number of employees is 7899, most of them are professional technicians.
Introduction to CAAMS

Organizational Structure

10 - Administrative Departments
12 - Share-holding Companies
15 - Sole Investment Subsidiary Companies
5 - Non-Commercial Research Institutes
Introduction to CAAMS

- CAAMS has 5 industrial zones, 13 production bases and 1 logistics technology park
  - Eastern Industrial Zone
  - Northeastern Industrial Zone
  - Central Industrial Zone
  - Southwestern Industrial Zone
  - Northwestern Industrial Zone

1. Northwest Industrial Park
2. Northeast Industrial Park
3. Central Industrial Park
4. Southwest Industrial Park
5. Southeast Industrial Park
Introduction to CAAMS

Headquarters in Beijing
Main Business Areas
Modern Agricultural Equipment

- Farmland transformation
- Ploughing and planting
- Plant protection
- Water-saving irrigation
- Grain harvesting
- Industrial crops production
- Seed processing
- Precision agriculture
- Agricultural robot
Main Business Areas

Animal Husbandry Equipment

- Forage processing
- Silage harvesting
- Animal health protection
- Grassland protection and improvement
- Grass production and processing
- Pasture production
Main Business Areas

Product Processing & Packaging

- Food storage
- Grain processing
- Fruit & vegetable processing
- Meat processing
- Oil & protein engineering
- Potato and starch processing
- Online quality inspection & packaging
Main Business Areas

Renewable Energy & Environment

- Straw collection and palletizing
- Bio-based material
- Ice-energy storage technology and systems
- Biomass power
- Cellulosic ethanol
- Agricultural forestry wastes & wastewater treatment
- Wind/solar energy
Main Business Areas

Survey, Design & Construction

Class A qualification in engineering advisory, designing, and EPC contracting
Main Business Areas

Media

- 24 Journals, 1 newspaper, 1 academic Journal, 1 yearbook and 4 websites
- 2 International academic journals:
  - CIGR Journal, sponsored and issued by International Commission of Agriculture and Biosystems Engineering (CIGR)
  - International Agricultural Engineering Journal (IAEJ), sponsored and issued by Asian Association for Agricultural Engineering (AAAE)
Main Business Areas

China Foodtech Expo—an amazing biennial event held 13 times
Main Business Areas

Revenue Distribution

- Modern Agricultural Equipment and Engineering
- Animal Husbandry Equipment and Engineering
- Agricultural Products Processing and Food Packaging Engineering
- Renewable Energy and Environmental Engineering
- Special Equipment
- Survey, Design and Engineering Construction
- Publications

Equipment manufacturing accounts for 65% of total revenue
International Cooperation in ABE
International Cooperation in ABE

Main aspects

- International S&T cooperation projects
- International talent exchange
- International conferences & exhibitions
- International training
- International organizations
- Other
International Cooperation in ABE

International S&T cooperation projects

- Government Departments, Universities, Enterprises, Research institutions from all over the world: US, Canada, Chile, Cambodia, Sri Lanka, Australia, Vanuatu …
International S&T cooperation projects

- Joint training
International Cooperation in ABE

International S&T cooperation projects

- Technical exchange
International Cooperation in ABE

International S&T cooperation projects
- Visiting professors
International Cooperation in ABE

International conferences & exhibitions

- Conferences
International Cooperation in ABE

International conferences & exhibitions

- Exhibitions
International Cooperation in ABE

International organizations

- International Commission of Agriculture and Biosystems Engineering (CIGR)
International Cooperation in ABE

International conferences & exhibitions
- Asian Association for Agricultural Engineering (AAAE)
International Cooperation in ABE

International Training

- Official training
International Cooperation in ABE

International training

- Technical training
Other
- Staff in abroad
Prospects
CAAMS is willing to cooperate with any partners from all over the world to jointly promote the development of Agricultural and Biosystems Engineering!
Prospects

Key research areas

- Grain production for ensuring food security
- Economic crops/fruits for value-added production
- Agro-product processing and food safety
- Renewable energy
- Precision farming for sustainable development
Promote S&T international cooperation

- Set up collaboration platforms, joint research centers
- Talent training
- International joint projects
- Commercial cooperation
Thank You!