

International Commission of Agricultural and Biosystems Engineering

CIGR Quarterly Newsletter Quarterly

Newsletter No. 89 May, 2010

> Since 1930 80 Years of CIGR

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Commission Internationale du Génie Rural (CIGR)

CIGR Website: http://www.cigr.org/

1. CIGR NEWS

Message from the President

A CIGR Congress year differs in many aspects from the intervening years. It is a time in which efforts focus on planning and implementation of the Congress. At time when we look back on achievements obtained over the previous four years and discuss plans and ideas for the coming four years. It is also a time when a number of board members end their duty and new members are welcome.

CIGR Congresses every four year

In the first part of CIGR's history the interval between CIGR Congresses varied with a typical five years interval. However, over the last two decades International Congresses were held every four years and in the last decade an International CIGR Conference was held between congresses. The interval between major CIGR events is decreasing over time, reflecting that the



President Søren Pedersen

evolution of the profession proceeds at a faster rate, where newly developed techniques can be outdated in a few years. For example, in Denmark in earlier times pig pens for growing-finishing pigs were of a type that used solid floor and straw bedding. With the partly slatted floors introduced in pig houses in the late sixties, it gradually evolved into fully slatted floors without bedding by the eighties, high animal density and manual work was reduced to a low level, both in the animal houses and handling manure in the field. Much research work was conducted at many EU member states to fine tune the fully slatted floor and pen design. Around 1995 70% of all pens for growing finishing pigs in Denmark had fully slatted floors and made low use of manpower. Due to growing public concern about animal welfare, fully slatted floors were suddenly banned for new constructions in EU member states starting 1991 and fully slatted floors for existing farms will be totally banned from 2013. New EU rules to go in effect in 2003 also prescribe lower stocking density, and rooting material is today compulsory.

This illustrates how technically improved solutions suddenly can be banned. From an engineering point of view it is a step back and from an animal welfare point of view a step forward. Today, in EU Animal houses for growing-finishing pigs at least 1/3 of the pen floor must be solid or drained. As a result, research work on pig houses is today focused on pens with partly slatted floors that are animal welfare friendly, with rooting material and low gas emission. Similar examples can be shown in other agricultural sectors. For instance, GPS has opened up opportunities in field applications we could not have guessed two decades ago and are used today in many commercial farms.

Election of Section Boards 2011-2014.

Because the work in the seven sections is at the core of our organization, recruitment of new section board members is

an important process. According to the CIGR Statutes the Board can have up to 16 ordinary board members including the chairs in each section. In addition, the board may consist of a maximum of 112 persons with worldwide representation, plus some honorary chairs. In the appointment of new board members many aspects should be taken into account. We must ensure that we are globally well represented by all member countries. It is also important that we appoint board members interested in the work of CIGR, and who are willing to spend the necessary time for the board to be effective. Besides keeping the working programs up-to-date, organizing symposiums, workshops, working groups, the technical sections are also tasked with selecting reviewers and section editors for the CIGR Ejournal.

Sections must appoint one or more board members or find a competent person within the section's working sphere. Appointment of Board members is an important task that needs special attention.

CIGR Ejournal

As you know since the CIGR International Conference in Brazil in 2008, we have spent a large effort in moving the CIGR Journal into a higher and more automated level of operation. Since then, the Journal was moved into an online management system with a well established review and documentation process. We are now making efforts to make efficient use of the new system.

Now that the logistics of the Journal have been resolved, Fedro Zazueta will be stepping down as editor from the Journal in favor of Wang Yingkuan. As an Editor, Wang represents the two supporting Chinese Ag. Eng. Societies, CSAM and CSAE. Wang is a great addition to our team, he is an experienced and formally trained editor.

Part of the new organization is a governing board for the CIGR Journal. The intent is for the Journal to be governed by broad representation of the membership. The board will have geographic representation of the membership while keeping the board small enough for it to be efficient and effective.

A formal announcement of the new board will be made soon.

More about the relocation of the editor job from Florida to China are described in the Newsletter.

The XVII CIGR 2010 in Canada

The Canadian organizers have done a great job in the planning of the XVII CIGR Congress in Quebec 13-17 June, which is organized in cooperation with 9th International Drainage Symposium (IDS), sponsored by ASABE, 8th World congress on Computers in Agriculture (WCCA), sponsored by INFITA, 10th Annual Meeting of the American Ecological Engineering Society (AEES), Génie des Procédés Appliqué in Agro-Alimentaire and the 13th Inter-Regional Conference on Land, Environment and Water (EnviroWater 2010).

The draft of the Scientific Program for the Congress in Quebec shows that all seven CIGR sections will be represented by section specific sessions. It is that

participants can benefit from specific sessions in their own field and have the opportunity to jump into other sessions of interest, among in total 12 parallel sessions. I really hope to see you there.

At the conference dinner in Quebec, we will celebrate the CIGR's eighty years anniversary, where fortunately about ten former CIGR presidents and secretaries will be present.

Søren Pedersen

President of CIGR 2009-2010

Message from new general secretariat

Dear Colleagues,

On behalf of the new General Secretariat of CIGR, including myself, Prof. Toshinori Kimura of the Research Faculty of Agriculture, Hokkaido University, Japan, I wish to send an introducing message to you on this occasion.



Professor Toshinori Kimura

Our group, the Research Group of Bioproduction

Engineering of Hokkaido University, is quite willing to undertake the secretariat of CIGR from the year 2010 to 2013, and it is also a great privilege for me to be assigned as the Secretary General to follow my esteemed colleague, Prof. Takaaki. Maekawa, whom I worked with when I was a professor of the University of Tsukuba, Japan before,

In the era of the last secretariat, I was deeply impressed by many of their remarkably excellent jobs such as revision of the CIGR Statutes, improvement of the financial condition, and so on.

Unlike the last secretariat, we will divide the duty among several secretariat members, because all the members have their own duties as present faculty members of this university. Each member will have their own allotted task and will do their best to serve the duty of the secretariat under my responsibility. I believe the merits of this system will outweigh any demerits. Although this is a new undertaking for us, I can assure you that all the members will cooperate with each other and do our best to serve the duty of the secretariat. We would like to request strong support and guidance from all of you in order to be most effective in our activities.

It is needless to say that the importance of global issues such as food and energy supply, and environment conservation including global warming, enlarges the demand of vital activity to CIGR more than ever before. On the other hand, global economy downturn has cast a dark shadow over the CIGR's financial condition too. So, it is a matter of course that we should endeavor to overcome the financial difficulty and contribute to solve those important global issues.

Lastly, I would like to introduce our secretariat members and Hokkaido University to you as below.

Thank you so much.

CIGR General Secretariat Members and Their Allotted Task

Members

<Secretary General from 2010 to 2013>

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About Hokkaido University

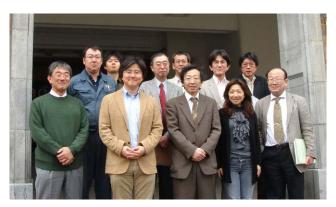
The Research Faculty of Agriculture, the Graduate School of Agriculture, and the Faculty of Agriculture were founded in 1876 as Sapporo Agricultural College. Then it became the Faculty of Agriculture of Hokkaido Imperial University in 1919. By 1992, the Faculty of Agriculture had developed into one of the largest faculties in Japan, consisting of seven departments with 46 chairs, and included the Botanic Garden, Livestock Farm, Experimental Farm, and University Forests. In 1999, the eight graduate divisions of the Graduate School of Agriculture were reorganized into three divisions. In 2001, the Botanic Garden, Livestock

Farm, Experimental Farm, and University Forests were designated as independent of the Faculty of Agriculture, and were affiliated with the newly established Field Science Center for Northern Biosphere.

The role of the Research Faculty of Agriculture, the Graduate School of Agriculture, and the Faculty of Agriculture of Hokkaido University is also important for agriculture in Hokkaido, because Hokkaido is the biggest food production area in Japan. Sapporo Agricultural College was established on the recommendation of Mr. Horace Capron, the United States Commissioner for Agriculture, and has contributed significantly to the reclamation of the island of Hokkaido which was a Japanese frontier. Agriculture in Hokkaido has become a major industry nowadays, and the self-sufficiency rate of Hokkaido exceeds 190%. Our institution is expected to continue its contributions to Hokkaido agriculture.

Our group, the Research Group of Bioproduction Engineering belongs to the Research Faculty of Agriculture, the Graduate School of Agriculture and the Faculty of Agriculture which constitutes a large institution covering all of the scientific fields relevant to research and education in agriculture, and will contribute to solving the problems facing Hokkaido, our nation, and the world.

Prof. Toshinori Kimura



New general secretariat member

From left: Assoc. Prof. Takashi Inoue; Assoc. Prof. Takashi Kataoka; Asst. Prof. Hiroshi Okamoto; Assoc. Prof. Yutaka Kaizu; Prof. Kazuhiko Ohmiya; Assoc. Prof. Kazunobu Ishii; Prof. Toshinori Kimura; Assoc. Prof. Shuso Kawamura; Ms. Yukari Tanaka; Prof. Yoichi Shibata; Prof. Noboru Noguchi

CIGR Ejournal Editorial moved from Florida to China

The Chinese Society for Agricultural Machinery (CSAM) and The Chinese Society of Agricultural Engineering (CSAE) signed a Co-operation Agreement regarding the CIGR Ejournal with The International Commission of Agricultural and Biosystems Engineering (CIGR) at the Chinese Academy of Agricultural Mechanization Sciences (CAAMS) in Beijing, China on 16 October, 2009. Prof. Soeren Pedersen, President of CIGR 2009-2010, Prof. LI Shujun, Vice President of CSAM and Prof. ZHU Ming, President of CSAE signed on the document on behalf of the

respective societies. Prof. WANG Maohua, Honorary President of CSAE and CSAM, Prof. Bill Stout, Honorary President of CIGR, ex-Editor-in-Chief of CIGR Ejournal and the related staff from CSAM and CSAE attended the signing ceremony.

The editorial Office of the CIGR Ejournal will be located in the Chinese Academy of Agricultural Mechanization Sciences (CAAMS), and CAAMS agrees to provide offices and internet server and other support for the CIGR Ejournal for five years.

Dr LI Shujun, the vice president of CSAM, and a Member of the Executive Board of CIGR has actively promoted the close collaboration between China and CIGR in the past few years after China successfully hosted the 2004 CIGR International Conference in Beijing. In 2008, he made a formal proposal to CIGR Presidium members after exchanging the ideas with the leaders from CSAE on China hosting the CIGR Ejournal. In the proposal, he put forward the guiding principles, organization structures as well as the purpose. He also received the visits of Prof. Bill Stout and Prof. Luis Santos Pereira and showed them the facilities of CAAMS. During the 5th CIGR VI International Symposium in Potsdam, Germany in August 2009, he reported to the Executive Board Meeting of CIGR the detailed information and preparation of China for hosting CIGR Ejournal, including funding, venue, staff and the necessary facilities,, broadly exchanged ideas, information with the leaders of CIGR. With his vigorous promotion, the proposal was fully supported by the CIGR Presidium and CIGR Executive Board members.

CSAM and CSAE drafted the co-operation agreement following the CIGR Presidium meeting and it was approved by CIGR Presidium very soon. The two parties agreed to sign the agreement during the period of Prof. Soeren Pedersen, President of CIGR 2009-2010 visit to China from 7-27, October 2009.

The signing of Co-operation Agreement between China and CIGR symbolized that China will be more involved in CIGR world activities and will play a more important role in international agricultural and biosystems engineering.



Prof. Soeren Pedersen, Prof. LI Shujun, Prof. ZHU Ming are signing the document and shaking hands.

CIGR World Congresses and Internatinal Conferences, 2010–2014

The XVII CIGR World Congress 2010 Québec, Canada, 13–17 June 2010 http://www.cigr2010.ca

The 17th World Congress of CIGR is only a few months away, with numerous activities planned over the period of 13-17 June, 2010 in Quebec City, Canada.

A preliminary program was placed on line on 18 February with more than 900 proposals. High quality technical presentations are scheduled in all seven CIGR Sections, in addition to programs sponsored by ASABE's International Drainage Symposium, the American Ecological Engineering Society, the World Congress on Computers in Agriculture and a Nanotechnology Symposium. The final program will be completed in May 2010. Meanwhile, the preliminary program can be uploaded from the following link:

http://www.bioeng.ca/cigr2010/programs

Many delegates have already registered. Registration on line will be accepted until 1 June, but everyone is encouraged to register early. After 1 June, we ask delegates to register on site because it will be difficult to confirm on-line payments during the last ten days prior to the Congress. By registering early, you will be guaranteed to receive lunch each day, a copy of the proceedings in paper format (optional) and in electronic format, and any other information for delegates prior to arrival in Quebec City. The on-site registration is at:

http://www.bioeng.ca/cigr2010/registration

Plan early for hotel accommodation. The summer tourist season starts in June in Quebec City; hotel room availability close to the Convention Centre may be limited at the time of the Congress. Blocks of rooms have been reserved in several hotels nearby for CIGR delegates. Most hotels will release the unreserved rooms after April, so you are encouraged to book soon. The list of hotels with an agreement with CIGR 2010 are identified at:

http://www.bioeng.ca/cigr2010/lodging-traveling/lodging

Prior to the Congress on 12 and 13 June, four workshops are offered. This is a unique chance to learn from specialists on drainage modeling, life cycle assessment, geomorphology of streams and bioenenergy feedstock logistics. Details on each workshop can be found at:

http://www.bioeng.ca/cigr2010/programs/workshops

Just after the Congress on 17 June, five technical tours are offered: (1) drainage and water management; (2) environment and livestock production; (3) food and process engineering; (4) bioenergy; and (5) large scale hydro-electric facilities. The tours are described at: http://www.bioeng.ca/cigr2010/programs/technical-tours

The 17th CIGR World Congress will bring together experts from more than 50 different countries to discuss common issues related to the general theme of "Sustainable Biosystems through Engineering". Come and meet old friends and make new acquaintances in your professional network. In an enjoyable atmosphere of French traditions, the CIGR Congress in Quebec will challenge all of us to improve our future work in agricultural and biosystems engineering.

The Local Organizing Committee www.cigr2010.ca



Old Quebec street with 17th century French architecture, at a 10-minute walk from the Convention Centre.



Majestic St. Lawrence River where CIGR delegates will enjoy a cruise on Monday evening 14 June.

Photos from: http://www.monquebec.net/

General Program – XVIIth World Congress of CIGR, 12-17 June, 2010 Québec, Canada

	Saturday 12 June	Sunday 13 June	Monday 14 June	Tuesday 15 June	Wednesday 16 June	Thursday 17 June
07:30			REGISTI	RATION 07:30) – 12:15	
08:30	Workshops 08:30 – 17:00		Opening	Plenary	Oral	
09:30	Presidium	dium 09:00 - 12:00	Ceremonies	Session	Sessions	
10:00			Cof	fee break / Post	ters	
10:30			016	S		
11:30	08:30 - 14:00		Oral Sessions and Po		Osters	
12:15			Lunch			
13:45			016	S		Technical
14:30		CIGR Section Boards	Oral Sessions and Posters			Visits
15:15	CIGR Executive	13:00 - 17:00	Cof	fee break / Post	ters	
15:45	Board 14:30 - 17:00		Oral Sessions and Posters Closing			
16:30		REGISTRATION 14:00 – 18:00		CIGR G.A. &	ceremonies	
17:30				Awards 16:30 – 18:30		
18:30	CIGR		'		-	
19:00	Working Groups	Welcome	Cruise on	Augusta		
20:00	10.00	St-Lawrence	Awards Banquet	Free evening		
21:00			River	19:00 - 21:30		
22:00						-

Venue

The XVIIth World Congress of the International Commission of Agricultural and Biosystems Engineering will be held in Québec City, Canada on 13 to 17 June, 2010 at the **Québec City Convention Centre**.

Québec City Convention Centre

900, boul. René-Lévesque Est, 2^e étage Québec (Québec) G1R 2B5

Phone: 418 644-4000 / 1 888 679-4000

Fax: 418 644-6455

Main Entrance

1000, boul. René-Lévesque Est

For more information about the Convention Centre,

visit convention.qc.ca.

For Quebec City and area touristic information, visit quebecregion.com.



CIGR-AgEng2012,

International Conference of Agricultural Engineering on 'Agriculture & Engineering for a Healthier Life', 8–12 July 2012—Valencia, Spain http://www.ageng2012.org/

On behalf of the International Comission of Agricultural and Biosystems Engineering (CIGR), the European Society of Agricultural Engineering (EurAgEng), and the Spanish Society of Agricultural Engineering (Sociedad Española de Agroingenieria, SeAgEng) I have the pleasure of welcoming you to the International Conference on Agricultural Engineering, CIGR-AgEng2012, that will be held in Valencia, Spain, on 8-12 July, 2012.

This joint Conference organized by the CIGR and the EurAgEng will cover emerging research and new engineering solutions for food production and rural development, as a means to enhance human welfare while promoting social benefits. Recent and challenging concerns include the implementation of new methods of agricultural and forestry production, and the preservation of natural resources and landscape by applying modern engineering concepts. Healthier production systems need to encompass higher social and economic benefits.

The CIGR-AgEng2012 Conference is addressed to academia, industry, producers, manufacturers and service providers from all over the world for discussion about novel approaches to integrate agriculture and engineering for enhancing the quality and expectance of life.

The main theme of this Congress is "Agriculture & Engineering for a Healthier Life", an ambitious idea that claims how Agricultural and Biosystems Engineering represents an essential part of the solution for producing quality food while protecting the environment.

The Conference will be held in the Valencia Conference Center. Valencia is the third largest city in Spain with a population of one million people. A modern transportation network, including the Manises International Airport, an extensive system of motorways and trains, and one of the best marine ports in Europe provides easy access to the city from any part of the globe. Its privileged location on the Mediterranean coast, and a dynamic economy and cultural life, allows the city to enjoy a prominent position among other European cities.

In the vicinity of Valencia you can discover pretty towns and beautiful natural landscapes, practice a wide variety of sports, or enjoy over one hundred kilometres of magnificent beaches that stretch from the city itself along the coast.

The Conference is hosted by the Spanish Society of Agricultural Engineering (Sociedad Española de Agroingeniería) and it will be organized by the Valencian Institute of Agricultural Research (IVIA) and the Polytechnic University of Valencia (UPV).

The conference will include both oral and poster sessions. Authors are encouraged to indicate their preference for presentation. A review committee will approve the proposed abstracts and request the full papers for their inclusion in the conference proceedings.

Graduate students and professionals from Developing Countries will be especially encouraged to attend the CIGR-AgEng2012 International Conference.

If you need any further information, please do not hesitate to contact me at juste_flo@ivia.gva.es or the Conference web page http://cigr.ageng2012.org

Sincerely,

Prof. Florentino Juste
President of EurAgEng
Chairman of the CIGR-AgEng2012 Conference

The XVIII CIGR World Congress 2014

Agricultural &Biosystems Engineering -Upgrading Our Quality of Life Beijing, China, 16 – 19 September, 2014

The XVIII World Congress of the International Commission of Agricultural and Biosystems Engineering (CIGR) will be held in Beijing, China from 16-19 September, 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 2 nd 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:

Prof. Lanfang ZHANG

International Cooperation Department

Chinese Academy of Agricultural Mechanization Sciences (CAAMS)

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Tel: 0086-10-64882358

Fax: 0086-10-64883508

Email: cigrwc2014@yahoo.cn

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.

Let's meet in Beijing at the XVIII World Congress of CIGR in 2014

Prof. Shujun Li Executive Board Member of CIGR

2. NEWS FROM REGIONAL AND NATIONAL SOCIETIES

Call for Papers
First Announcement
Sustainable Bioproduction
WEF 2011

CIGR International Symposium "Sustainable Bioproduction

- Water, Energy, and Food''
19-23 September, 2011, Tokyo, JAPAN
http://www.cigr2011.org/

In 2011, all engineers and scientists and affiliates from 7 technical sections of CIGR will meet in Tokyo to discuss the updated controversial issues on water, energy and food along with the latest technological development at the 2011 CIGR International Symposium on "Sustainable Bioproduction Water Energy and Food" on 19-23 September, at Tower Hall Funabori inTokyo, JAPAN.

Sponsor: SCJ (Science Council of Japan), **JAICABE** (Japan Association of International Commission of Agricultural and Biosystems Engineering) and **CIGR** (International Commission of Agricultural and Biosystems Engineering)

Subject Areas:

1) Soil and Water in Agriculture, 2) Facilities and Environment, 3) Equipment Machinery and Structures, 4) Electric Power, Wind Energy, Solar Energy and Biomass Energy, 5) Operative Management of Post Harvest, 6) Paddy Field Agriculture, 7) Upland Field Agriculture, 8) Arid Land Farming, 9) Food Production, 10) Agricultural Robot and Bio-Robotics, 11) Remote Sensing, 12) Risk, Security and Safety on Agriculture, and 13) General or Miscellaneous Topics

Organizations:

International Program Committee (IPC)

Chair: Prof. Haruhiko Murase, Vice Chair: Prof. Shujun. Li, and Prof. Noboru. Noguchi

Secretary: Prof. Hiroshi Shimizu
Chairs of CIGR Section Board I to VII
National Organizing Committee (NOC)

Chair: Prof. Taichi. Maki, Vice Chair: Prof. Haruhiko Murase, Prof. Masaharu Komamura and Prof. Takemi Machida

Secretary: Prof. Emeritus Takaaki Maekawa

Important Dates:

Submission of abstract: 1 July, 2010 Notification of acceptance: 1 August, 2010 Initial manuscript submission: 1 April, 2011

Critiqued manuscript returned to authors: 1 June, 2011 Final camera-ready manuscript submission: 1 July, 2011 Early registration due: 1 July, 2011 Registration due: 1 August, 2011.

Access:

The Symposium venue will be the Tower Hall Funabori in Tokyo, Japan. It is located in the South-East area of Tokyo and it takes about one hour from Narita International Airport by limousine bus and train. The location of the Hall is very convenient to go around Tokyo which is very attractive and exciting.

Programe:

Mon. 19th Registration, Workshop, Poster Sessions, Welcome Partry

Tue. 20th Opening Ceremony, Special Open Lectures, Technical Sessions

Wed. 21st Workshop, Open Symposium, Technical Tours (Tsukuba Science City), Excursions (Kyoto, Nikko, Tokyo Bay Cruise, etc)

Thr. 22nd Special Symposium, Oral and Poster Sessions, Banquet

Fri. 23rd Oral and Poster Sessions, Closing Ceremony

Contact:

Associate Prof. Dr. Yutaka Kitamura (Vice Secretary of the Symposium), e-mail: kitamura@sakura.cc.tsukuba.ac.jp

Prof. Taichi Maki Chair of the National Organizing Committee

3. NEWS FROM SECTIONS AND WORKING GROUPS

CIGR SECTION I

Land and Water Engineering

The main plan of action of Section I for the next few years is the following:

- continuing organizing the ENVIROWATER conference.
- co-sponsoring other parallel activities of the different section members.

The following events are currently planned:

2010

13th Inter Regional ENVIRO WATER (Dr. Philippe Savoie,) (http://www.bioeng.ca/cigr2010/)

Coordinated with the organizer of the XVIIth CIGR World Congress, June 13-16, 2010, in Quebec City, Canada,

Scientific Themes

- Status of water resources locally and globally; Surface and groundwater resources;
- Infrastructure to match water demand and supply; Harmonizing agricultural and non-agricultural uses of water
- Water security and risk management; Impact of climate change on water resources;
- Water quality and quantity; Water quality and environmental safety; Waste water management;

- Technologies to improve water conservation and use for irrigation;
- Water-nutrient interaction for enhancing crop productivity;
- Precision farming and water management;
- Coastal ecology;
- Soil, water, and landscape conservation
- Risk assessment in land use planning; coping with floods and droughts
- Integrating land and water use; technical and institutional issues
- Water management systems for land use planning
- Land use hydrological and environmental impacts

Landscape Architecture and Planning Between Art and Science

(Dr. Gerrit-Jan Carsjens, Wageningen University) (http://www.landscapecharacter.org.uk/node/360)

International Conference that will be held in Maastricht, the Netherlands, 12-14 May 2010

Organized by

- CELA Council of Educators in Landscape Architecture, USA
- Land Use Planning and Landscape Architecture, Wageningen University, the Netherlands
- ISOMUL International Study group on Multiple Uses of Land

Topics

- a. Design education and pedagogy
- b. Sustainability
- c. History, theory and culture
- d. Communications and visualization
- e. Landscape planning and ecology
- f. Environment and human behavior
- g. Urban design
- h. Design implementation
- i. Methods of inquiry
- j. Community participation

2011

14th Inter Regional ENVIRO WATER (Prof. SATO Yohei,)

Coordinated with the organizer of the CIGR International Symposium 2011 on "Sustainable Bioproduction - Water, Energy, and Food", 19-23 September, 2011 Tokyo, JAPAN

2012

15th Inter Regional ENVIRO WATER (Profs. Florentino Yuste and José Mª Tarjuelo)

Coordinated with the organizer of the CIGR-EurAgEng joint Congress on Agricultural Engineering 2012 at Valencia Spain. (http://cigr.ageng2012.org)

Jose M^a Tarjuelo. Chairman of Section I

CIGR SECTION V MANAGEMENT, ERGONOMICS AND SYSTEMS ENGINEERING.

The general aim of the Section V is to optimise work organization and farm management through labour and work planning, as well as systems engineering, and to improve the human health and safety of workers in respect of environmental factors as well as ergonomics and psychological and social factors like work satisfaction.

Section V acts as an umbrella for all national committees and sets an international calendar for the conference symposium, workshop, etc.

Themes of Section V are:

1. Ergonomics.

Concerning work load and safety of farmers use of combines, tractors and other technical equipment, including the compatibility of signs and manuals on the actual work places;

2. Risk analysis.

Regarding accident prevention in all agricultural operations that impose different levels of physical and mental stress;

3. Work organization.

Concerning the investigation of work methods and labor operation time by combines, tractors and other equipment, also considering the effect of weather conditions in daily planning;

4. System Management.

Regarding the information technology and decision support systems in order to improve productivity, to enhance product quality and to reduce costs, also taking into account the reduction of the impact of agricultural productions on the environment;



"Technology and Management to increase the Efficiency in Sustainable Agricultural Systems" in Rosario Argentina in 1-4 Sept., 2009.



"Innovation technology to empower safety, health and welfare in agro-food systems" in Ragusa Italy in 15-17 Sept., 2008.

5. Agro-food and no-food logistics.

Logistic is that part of the supply chain management that plans, implements and controls the efficient and effective flow and storage of goods, services and related information from the point of origin to point of consumption in order to meet customer requirements.

ACTIVITY

In 2007, CIGR in cooperation with CIOSTA (Commission Internationale de l'Organisation Scientifique du Travail en Agriculture), held XXXII CIOSTA-CIGR Conference "Advances in labour and machinery management for a profitable agriculture and forestry" (17-19 September) at the Slovak University of Agriculture in Nitra (Slovak Republic). In 2008 CIGR V held in cooperation with AIIA (Italian Association of Agricultural Engineers) an international conference with the title: "Innovation technology to empower safety, health and welfare in agro-food systems". The conference was held in Ragusa (Italy) and lasted from 15 to 17 September, 2008. 60 oral presentations and 50 posters were presented. Technical tours were organized on the third day.

About 200 scientists attended the conference, from about 10 countries. The conference included the participation of the

CIGR President, prof. Soeren Pedersen, who also attended to board meeting of Section V in Ragusa.

In 2009, two events were related to the CIGR section V activities.

The first was the XXXIII CIOSTA-CIGR V Conference "Technology and management to ensure sustainable agriculture, agro-systems, forestry and safety" held at the Mediterranea University of Reggio Calabria (Italy), from 17 to 19 June 2009.

The IUFRO workshop titled "Forestry utilization in Mediterranean countries with particular respect to sloping areas" was organized as part of the conference. Over three hundred people participated at the conference. The proceedings contain 393 papers (161 oral and 232 poster). The participants came from 60 countries.

Two technical tours took place: one related to olive growers and an olive-oil factory, and one related to the forestry activity in the area.

Also in this case prof. Pedersen attended the Conference and the Technical Board Meeting of Section V. At that meeting, the CIGR section short name System Management was agreed and a subtext was discussed: Optimization of farm management and work organization by use of operation planning, logistic and system engineering, while improving the operations efficiency, economics, health, ergonomics and worker's safety.

The second was the CIGR V symposium "Technology and Management to increase the Efficiency in Sustainable Agricultural Systems" held jointly with X Argentinean Conference of Agricultural Engineering and II of MERCOSUR in Rosario (Argentina) in 1-4 September 2009. Approximately 500 delegates presented nearly 600 papers. In total, 36 countries were represented.

The CIGR had very good visibility because of the joint organization of the events. The high level of attendance to both plenary and technical session was guaranteed by the simultaneous translation English/Spanish available during the whole event.

The Conference was enriched by many plenary sessions. The keynote speakers invited by CIGR V addressed themes related to the information technology in agriculture, the logistics in field operations and the efficiency in post-harvest operations. The CIGR V hosted a video-conference by Prof. Braga, University of Guelph, Ontario (Canada) on the opportunities for carbon trading in agriculture.

FUTURE ACTIVITY

In the CIGR Congress which will take place in Quebec from 13-17 June 2010 is scheduled the next board meeting of Section V.

In 2011, the XXXIV CIOSTA-CIGR V Conference in Vienna (Austria) is scheduled from 29 June to 1 July, with the title "Efficient and safe production processes in sustainable agriculture and safe production processes in sustainable agriculture and forestry"

 $(\underline{http://www.nas.boku.ac.at/ciosta2011.html}).$

Topics:

- Labor, ergonomics, safety and health
- System engineering, management, traceability
- Field operations
- Livestock management

- Processing, post-harvest technology, logistics
- Renewable energy and efficiency
- Information systems and precision farming
- Open topics.

Prof. Pietro Piccarolo Chairperson of Section V

CIGR Section VI TOWARD A SUTAINABLE FOOD CHAIN CIGR Congress, 18-20 April, 2011 Nantes, France

Dear colleagues

Please find hereby a first flyer announcing the next CIGR symposium - Section 6: 18-20 APRIL 2011 - Nantes - FRANCE

The symposium will be held in Nantes, the city of Jules VERNE

On Monday 18th and Tuesday 19th, parallel sessions will be organized with a general focus on food science, food processing, bioprocess and biotechnology

On Wednesday 20th, last morning of the symposium, a single session on the sustainability of the food chain will be organized with a selected panel of lecturers.

The symposium follows a set of successful events held in

- Beijing in October 2004
- Warsaw in April 2006
- Naples in September 2007
- Foz do Iguacu, Brazil in 2008,
- Potzdam un 2009,
- Québec in 2010 (full congress all section of CIGR).. and Nantes in 2011

Please disseminate the information to your colleagues. Please keep the date; this will be a unique opportunity to visit Nantes, its traditions, its history and also a chance to discover the famous machineries of the "MACHINES DE L'ILE" with its new collection of surprising animals and machinery:

- Elefant walk, ...
- Fish
- Boat

About the CIGR: The CIGR (International Commission of Agricultural Engineering) Section VI (Postharvest Technology and Process Engineering) deals with the engineering principles and technologies in postharvest and processing of agri-food products. It is devoted to follow the trends, promote the advancement and enhance the dissemination and transfer of technology in postharvest and processing at a global scale.

Cordialement - Best regards

Prof. Alain LE BAIL

4. CIGR SUPPORTED ACTIVITIES

XXXIV CIOSTA CIGR V Conference 2011 Call for Abstracts

Efficient and safe production processes in sustainable agriculture and forestry 29 June – 01 July 2011, Vienna, Austria

CIOSTA, CIGR, EurAgEng, VDI, ÖKL, BLT Wieselburg and the University of Natural Resources and Applied Life Sciences would like to invite you to the XXXIV CIOSTA & CIGR Section V Conference in Vienna, Austria.

The conference provides a forum to present and exchange ideas and to promote research, development and application of efficient and safe technology and management in production processes of agriculture and forestry.

CIOSTA emphasizes a holistic and sustainable approach to designing and improving systems and fosters cooperation among scientists, technicians, advisers and producers throughout the world.

The University of Natural Resources and Applied Life Sciences, the host of the conference, was founded in 1872. It feels responsible for teaching and research that focus on renewable resources, which are a requisite for human existence. The university offers 9 Bachelor's and 19 Master's program, including four international Master's program conducted in English.

The goal of the Department of Sustainable Agricultural Systems is to contribute to the development of a network of sustainable and ecological agricultural systems which provide food, renewable resources and energy. With its research activities and courses in engineering, the Division of Agricultural Engineering promotes the sustainable technologies development of and constructions, renewable energy resources, work sciences and safety.

Conference Programme

The scientific program includes plenary sessions, presentations and poster sessions. Technical and conference tours will also be organized.

Topics

- Labour, ergonomics, safety and health
- System engineering, management, traceability
- Field operations
- Livestock management
- Processing, post-harvest technology, logistics
- Renewable energy and efficiency
- Information systems and precision farming
- Open topics

Language

Papers for proceedings, presentations and poster sessions will be accepted in English.

Guidelines Abstract, Paper and Poster

The guidelines for abstract, paper and poster can be found at http://www.nas.boku.ac.at/author.html.

Submitted abstracts, papers and posters must conform with the guidelines posted on the homepage.

Submissions will go through reviewing processes and will be included in the proceedings.

The abstract should not exceed 2 pages (1000 words) and the paper 5 pages (2500 words).

Submission Abstract and Paper

Abstracts and full papers should be submitted online at http://www.nas.boku.ac.at/submission.html.

If the web site is not accessible, please send your abstract or paper via e-mail to: ciosta.2011@boku.ac.at

Important Dates

Papers for proceedings, presentations and poster sessions will be accepted in English.

- 1 October 2010 Submission of abstract
 30 November 2010 Notification of acceptance
- 1 March 2011 Submission of full papers
 2 May 2011 Final programme

Fees

1 005		
	Early	Late
	1 March 2011	until 23 June
		2011
Participants	EUR 300	EUR 350
Industrialized		
Countries		
Participants	EUR 120	EUR 150
Developing		
Countries		
Students	EUR 120	EUR 150
Accompany	EUR 100	EUR 100
Technical tour	EUR 50	EUR 50

The fee includes attendance to conference sessions, conference proceedings, coffee breaks, and conference dinner.

Registration:

http://www.nas.boku.ac.at/registration.html

Accommodation

A list of recommended hotels can be found on the conference website.

2nd International Workshop on Computer Image Analysis in Agriculture Budapest, 26-28. August, 2010

The CIGR working group on Image Analysis for Agricultural Processes and Products is aimed at working together with existing CIGR Sections to increase the collaboration between institutions, enterprises and individuals in the field of image analysis. More precisely,

its objectives are to (1) meet recent demands on process monitoring in agricultural production, during storage and processing of raw material and to (2) develop objective, sensitive, and reliable optical tools for receiving analytical data in a non-destructive way.

After the first assembly during the 1st International Workshop on Computer Image Analysis in Agriculture (Potsdam, Germany, 2009), it was decided to organise successive workshops in Budapest (Hungary), Adelaide (Australia, 2011, together with the bi-annual SEAg Conference) and Valencia (Spain, 2012, together with the 3rd. CIGR International Conference).

The host of the 2nd International Workshop on Computer Image Analysis in Agriculture will be the Department of Physics and Control of the Corvinus University of Budapest. Its well known enthusiasm will be the basis of the workshop's success. You can find more information in the following web page:

http://physics2.uni-corvinus.hu/CIGR-IP/

Important dates:

- Abstract submission deadline : 16. April, 2010.
- Notification on acceptance : 10. May, 2010.
- Full paper submission: 31. May, 2010.
- Early bird registration and payment : 31. May, 2010.
- Workshop: 26-28. August, 2010.

A significant effort is being made to organise this event and now it is time for you to make it fruitful. You will have the opportunity to share knowledge with scientist from all around the world, to start new projects or to have a precise idea of the current state of the art in Image Analysis in Agriculture... and, of course, to immerse yourself in the wonderful city of Budapest and the hospitable culture of Hungary.

On behalf of the governing board of the Working Group, I hope to see you in Budapest next August,

Prof. Enrique Molto

Report on the 38th International Symposium Actual Tasks on Agricultural Engineering 22 – 26 February 2010, Opatija, Croatia

The 38th International Symposium Actual Tasks on Agricultural Engineering was held on 22-26 February 2010 in Grand Hotel "Adriatic" Opatija, Republic of Croatia. The principle Organizer, Agricultural Engineering Department, Faculty of Agriculture, University of Zagreb was supported by the following frameworks: Department of Agricultural Engineering, Faculty of Agriculture, University J.J.Strossmayer, Osijek, Department of Bio-systems Engineering, Faculty of Agriculture, University of Maribor (Slovenia), Agricultural Institute of Slovenia, Hungarian Institute of Engineering Gödöllö and Agricultural Croatian Agricultural Engineering Society. Co-sponsors of the Symposium were CIGR, EurAgEng, AAAE and

Association of Agricultural Engineers of South Eastern Europe (AAESEE).

This year 80 participants from 13 countries attended the Symposium. It consisted of an Opening Session and six Topic Sessions covering all the broad subject-areas that fall under the scope of Agricultural Engineering. At the Opening Session prof. Milan Mesic, vice-dean of the Faculty of Agriculture, University of Zagreb, delivered his speech emphasizing the importance of the Event and its long tradition. The Convenor, Prof. Silvio Kosutic ended the Opening Session bringing the greetings of the Croatian Society of Agricultural Engineering to the audience. A number of lectures followed, among which the following are worth mentioning: "A multi-ring model to simulate particle-based systems in **biomaterials transport**" presented by MSc Jalal Kafashan from Belgium, "Wine growing and producing farm buildings: Meta -design analysis for definition of spatial layouts given by Dr.sc. Stefano Benni from Italy, "New possibilities for technology of potato fertilization" featured by Dr. J. Cepl from Czech Republic, "Using Jathropa (Jathropa curcas L.) vegetable oil in biodiesel production" delivered by prof. dr. Miran Lakota from Slovenia, "Monitoring of site specific Fe and Zn variability on the apple area using the GIS based spatial pattern maps" proposed by dr. M. Rustu Karaman from Turkey, "The effects of the relationship between machine and plant on the losses and profitability- (example of dry pea harvesting)" introduced by prof. Istvan Husti from Hungary "Utilization possibilities of biomass from agriculture as an energy supply in Slovenia" highlighted by dr. Viktor Jejcic from Slovenia. In the Topic Sessions, each starting with a review report, 40 papers were discussed, in oral presentation. At the Closing Session the Convenor emphasized the role of EurAgEng and CIGR in the ecologically sustainable development of agriculture and in the preservation of the rural cultural heritage within the East-European countries. Participants were given printed copies of the Proceedings consisting of Volumes of 471 pages ,containing 45 papers. Papers from the Proceedings have been indexed in database ISI Proceedings since 1997. Maziva Zagreb d.d.-INA group (national petrol company) presented its new palette of bio-degradable oils emphasising the progress made in keeping pace with well known worldwide competitors. Other companies



Same-Deutz Fahr, Agco, highlighted their current programmes by means of video and oral presentations during afternoon Sessions.

Information regarding the 39th Symposium in the year 2011 will soon be available at the web site: http://atae.agr.gr

Prof. Silvio Kosutic, Convenor of the Symposium Prof. Daniele De Wrachien, Past President of EurAgEng

2010 International Agricultural **Engineering Conference** Theme: Innovation, Cooperation, and Share Shanghai, China, Sept. 16th-20th, 2010

Sponsored by

Asian Association for Agricultural Engineering (AAAE) Chinese Society for Agricultural Machinery (CSAM) Agricultural Machinery Standardization Administration of China (SAC/TC201)

Chinese Society of Agricultural Engineering (CSAE)

Organized by

Chinese Academy of Agricultural Mechanization Sciences (CAAMS)

Shanghai Society for Agricultural Machinery (SSAM)

Co-sponsored by

International Commission of Agricultural Engineering (CIGR)

American Society for Agricultural and Biological Engineers (ASABE)

China Food and Packaging Machinery Industry Association (CFPMIA)

Association of Overseas Chinese Agricultural, Biological, and Food Engineers (AOC)

Association of Equipment Manufacturers (AEM) More co-sponsors will be available later

Venue

Great Tang Hotel (www.GreatTangHotel.com)

International Agricultural Engineering Conference will include the following parallel sessions

Parallel Session I – Asia Forum

Biannual Academic Meeting of AAAE, working meetings of Societies and Associations Presidents from Asian Countries and AAAE Executive Board Meeting. The working language of Session I is English. Detailed program will be available soon on the AAAE website and the AAAE Newsletters.

IMPORTANT DATES

- Deadline for abstracts submission: 26 April, 2010
- Notice of acceptance: 26 May, 2010
- Early registration with payment: 1 August, 2010
- Deadline submission for full papers: 15 August, 2010

Parallel Session II - Workshop on International **Agricultural Machinery Standards**

Technical presentations of Workshop on International Agricultural Machinery Standards. The working language of Session II is English.

Parallel Sessions III-IIIV-CSAM

Annual Academic Meeting of Chinese Society for Agricultural Machinery, and its working meeting. The working language of Session III-IIIV is Chinese

Prof. Lanfang Zhang

5. OTHER ACTIVITIES

Remote Sensing and Hydrology 2010 **Symposium**

27-30 September, 2010, Snow King Resort, Jackson Hole, Wyoming, USA http://remotesensinghydrology.org/index.cfm

The International Commission on Remote Sensing (ICRS) of IAHS frequently sponsors workshops and symposia at Scientific Assemblies and at International Union of Geodesy Geophysics (IUGG) General Assemblies. In the year 2000, the ICRS sponsored a Symposium on Remote Sensing and Hydrology, held in Santa Fe, New Mexico. Ten years after that successful Symposium, the ICRS is now organizing another edition. Applications of remote sensing in hydrology have steadily progressed over the last 10 years with the advent of new satellite and airborne sensors, so that another stand-alone symposium is merited.

Special Sessions

- Observation techniques for surface energy balance components on kilometer scale
- The application of lidar to problems in cold-regions hydrometeorology and water resources
- Advances in thermal-infrared remote sensing for hydrological applications
- Data assimilation of land remote sensing products into models
- Impact of New Microwave Satellite Missions on Land Surface Hydrology
- Uncertainty in In-situ Measurements of Surface Fluxes and Its Impact on Evaluating Remote Sensing -based Products and Models

Visit a website for a detailed description of the above Special Sessions. For further information, please contact:

> Christopher Neale, Chair christopher.neale@usu.edu (435) 7700297

6. PUBLICATIONS

Agricultural Engineering International The CIGR Ejournal

Prof. Fedro Zazueta, Acting Editor-in-Chief ISSN 1682-1130

Send manuscripts for peer review to – www.CIGRjournal.org

Since OJS' implementation, the CIGR Ejournal the number of manuscript submissions continues to increase. The table below shows the statistics for the CIGR Ejournal since the beginning of this year.

2010 Statistics for the CIGR Ejournal (January – March)

Issues	published 1
Items	published 2
Total submissions	41
Peer reviewed	6
Accepted	2 (33%)
Declined	4 (67%)
Resubmitted	1 (17%)
Days to review	30
Days to publication	78

Note: Percentages for peer-reviewed submissions may not add up to 100% as items resubmitted are either accepted, declined or still in the process of review.

Note that from January through March of this year, 41 manuscripts were submitted. The average time to conduct a review and publish a manuscript is less than 30 days. This is a substatial decrease from 80 days. In addition, the acceptance rate for the CIGR Ejournal is about 33%. To further reduce the time from submission to publication, the most important issue is to increase the number of members who are willing to conduct reviews in a timely manner. Currently, the reviewer database in the journal contains 1848 entries. If you have not registered in the CIGR Ejournal, please do so by going to the Website and registering as an author and reviewer

Fedro S. Zazueta Editor-in-Chief of CIGR Ejournal

	CIGR Section Boards	(updated in April 2010)			
Section I:	Land and Water Engineering	(Chair: Jose M. Tarjuelo [Spain])			
Section II:	Farm Buildings, Equipment, Structures and Environment				
		(Chair: Daniel Berckmans [Belgium])			
Section III:	Equipment Engineering for Plants	(Chair: John K. Schueller [USA])			
Section IV:	Energy in Agriculture	(Chair: Zoltan Sibalszky [Hungary])			
Section V:	Management, Ergonomics and Systems Engineering (Chair: Pietro Piccarolo [Italy])				
Section VI:	Postharvest Technology and Process Engineering				
		(Chair: Jozef Grochowicz [Poland])			
Section VII:	Information Systems	(Chair: Antonio Saraiva [Brazil])			

All correspondence and information on forthcoming activities should be sent to: CIGR GENERAL SECRETARIAT Professor Dr. Toshinori Kimura, Secretary General

Hokkaido University, Research Faculty of Agriculture Kita-9, Nishi-9 Kita-ku, Sapporo, Hokkaido 060-8589, Japan Tel.: +81-11-706-3885; Fax: +81-11-706-4147 E-mail: cigr_gs2010@bpe.agr.hokudai.ac.jp

DISCLAIMER

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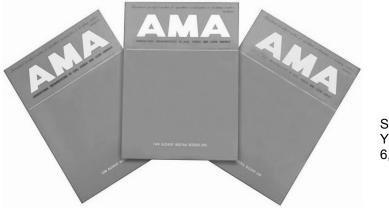
Agricultural Mechanization in Asia, Africa, and Latin America

This magazine is an international technical journal on agricultural mechanization that promotes mechanization of agriculture in developing countries. This magazine clearly introduces problems in agricultural development and the promotion of agricultural mechanization in developing countries as well as countermeasures for tackling these problems provided by the experts in various fields. Writers include leaders of developing and advanced countries who have good knowledge of their local regions.

In the past, we have published articles on the current status of agriculture and agricultural mechanization in Asia, the Middle East, central and southern America, Africa, and Eastern Europe. We have also published articles on the improvement of agricultural technology and promotion of mechanization, creation of an agricultural industry and research and development of agricultural machinery. As a result, we have gained the reputation of being the best magazine that provides basic knowledge of and a systematic outlook on agricultural research and mechanization from an international viewpoint.

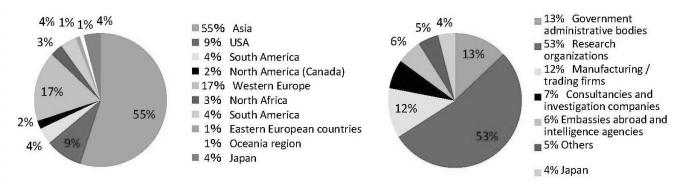
Presently, we have readers in over 120 countries, including members of government organizations, educational institutions, research and development institutions, industry, and distributors. Our journal has a particularly wide readership in developing countries that includes specialists such as policy makers for agricultural mechanization and decision makers for the adoption of agricultural machinery.

In addition, AMA is favorably received as it publishes related news such as the information on new products worldwide and trends in farm machines and implement makers.



Subscription fee: Yearly (4 issues) 6,000 JPY

Organizations with reading populations:



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