



International Commission of Agricultural and Biosystems Engineering

CIGR

Newsletter Quarterly

Newsletter No. 88
December 2009

Since 1930
79 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

Midway through the presidium's 2009–2010 term I would like to highlight some of the CIGR activities I have participated in during my first year as president.

CIGR Statutes

The CIGR statutes, which are the guidelines for the work in CIGR, have been the subject of many discussions over the years. Therefore, I am glad that at the General Assembly in Iguassu, Brazil, 2008 we could agree on the new statutes. The revised statutes, available on the CIGR homepage, also were published in Special Issue 84 of the CIGR Newsletter, December 2008. I would like to



President Søren Pedersen

highlight that the name of CIGR is brought into line with the worldwide trend in agricultural engineering by extending the name with Biosystems, so the new name in English is International Commission of Agricultural and Biosystems Engineering.

CIGR Ejournal

As reported earlier in CIGR Newsletters, we have been looking for a successor to the Editor-in-Chief for the CIGR Ejournal, because Prof. Bill Stout wanted to retire as Editor. Fortunately Prof. Fedro Zazueta, Florida took over for the short term until a longer-term solution can be found, and he has also modernized the newsletter from manual handling to an Open Journal System OJS. In 2009 the presidium had productive communication with China with respect to hosting the Ejournal, as also mentioned in the Newsletter 87. Many aspects were discussed and finally reached an agreement on October 2009. In October I was in China to participate in various matters, and one of the important parts of the trip was the signing of the agreement regarding the CIGR Ejournal between CSAM/CSAE and CIGR for the next five years. The Co-operation agreement, which was signed on 16 October 2009 between The Chinese Society of Agricultural Machinery (CSAM) and The Chinese society of Agricultural Engineering (CSAE) and CIGR will be referred in the next CIGR Newsletter 89.

I regard it as a very promising agreement and look forward to experiencing the transition of the Ejournal from Florida to a new Ejournal Editor in Chief in China in the near future.

Sections name.

As discussed in more detail in the CIGR Newsletter, we are progressing with a revision of the Sections names, to make them shorter and easier to promote. All sections have had the opportunity to consider the short names and Section IV has recently expressed the wish to use 'Energy in Agriculture' as short name. It is my impression that all sections are now in agreement on the present proposals and that we can close the discussion of short names (See Newsletter 87). To give a good overview of the concerns of the sections for the next decade, all sections are asked to formulate a subtext of few lines, including actual keywords for the sections. The present status is that six out of the seven sections have formulated a subtext

in relation to the proposed short names. Some subtexts are to be considered as final proposals and some are just the first draft. It has been important to me to have a first overall look at all section descriptions, so we can have a good understanding of what the sections want to concentrate on for the next decade. The next step will be that all section chairs have a chance over the next month or two, to consider if the style of the subtext should be adjusted in respect to other subtexts and also to consider if all relevant CIGR themes are included and to avoid unnecessary overlap. It is hoped that the short names and subtexts can be confirmed at the CIGR Congress in Quebec.

Visiting Section Board Meetings

One of my goals for the first year as president has been to take part in Section Board Meetings and to give short overviews about CIGR at different conferences.

The first meeting was the Section V Board Meeting in Reggio Calabria in Italy, held in connection with the CIOSTA XXXIII- CIGR conference in June, followed by the Section VI Board Meeting in Potsdam, Germany, held from 31 August to 2 September in connection with the 5th International Technical Symposium on Food Processing, Monitoring Technology in Bioprocesses and Food Quality Management. The third meeting was the Section II Working Group Meeting on Animal Houses in Hot Climates, held in October in Ronchang near Chongqing in China, in connection with the International R&D Institution Mission to Chongqing, where a Section II Board Meeting also took place. In November, I also participated in the Section I Board Meeting in Marrakech in Morocco held in connection with the 12th Interregional EnviroWater Conference. I am glad to say that I have experienced first hand that the CIGR meetings and symposiums worldwide are very well carried out in close cooperation with local organizations.



CIGR overview speech in Rongchang, China.

Methods of communication in CIGR

There is no doubt that ever better and faster communication possibilities with e-mail have made the world 'smaller', compared to postal communication used earlier. New techniques are still being implemented, for example, meetings via Skype, which we are in the process of testing in the presidium. I am sure that we can have good discussions and

decision-making meetings via Skype, but it is very important for efficient Skype meetings that all members know each other personally from other face-to-face meetings. E-mails and Skype meetings can improve and speed up decisions, but will never replace personal contact.

CIGR World Congress 2010 in Quebec

The next congress in Quebec is the seventeenth CIGR Congress and it is also the year of celebrating the eightieth anniversary of the founding of the CIGR. We know that the organizing committee in Quebec is busy and that the number of abstracts received is approaching one thousand. We are looking forward to the CIGR World Congress.

*Prof. Søren Pedersen
President of CIGR 2009-2010*

Farewell letter from Prof. Emeritus Maekawa

I was elected as the Secretary General of CIGR by the CIGR General Assembly at the first International Conference, 2004, held in Beijing, China. I will meet my mandate at the end of December 2009.

From 1 January 2010, Prof. Toshinori Kimura will serve as Secretary General for 4 years. He was elected at the second CIGR International Conference, 2008, held in Iguassu Falls City, Brazil.

During my tenure, I was aided by two persons from the University of Tsukuba, Associate Prof. Yutaka Kitamura and Ms. Nobuko Akamatsu, who served as staff members of the CIGR General Secretariat. I would like to thank them for their unflinching support in my work.

I would also like to express my gratitude to Prof. Peter Schulze Lammers and Ms. Frauke Beeken

for providing me with a great deal of relevant information about the General Secretariat's activities.

During my 4 years as Secretary General, I extended my full support to the three presidents of CIGR—Prof. Luis Santos Pereira, Prof. Irenilza de Alencar Nääs, and Prof. Søren Pedersen—and one incoming president, Prof. Fedro Zazueta. I am extremely grateful to them for their useful suggestions and comments which helped me to effectively carry out my duties as Secretary General.

Ms. Akamatsu and I struggled with our responsibilities during the initial two years because we had no access to the overview of the duties of the Secretary General even though we had business coming in from Bonn, Germany. In the next two years, however, we became accustomed to the handling and managing of the CIGR Secretary General's duties thanks to Prof. Fedro, who managed to upgrade the CIGR website with help from the Ad-hoc Committee.

1) Why did I commit to CIGR administration work among Presidium members? The reasons can be described in the following two sentences:

a) CIGR activities were concentrated in *volunteer work*, focusing on scientists elected by organizations of each country in connection with agricultural engineering and

sciences.

b) CIGR regional/national affiliated associations/societies are *autonomous* organizations with their own set of statutes and internal regulations (Article 4 effective from January 2001).

Upon my election as CIGR Secretary General, I read about CIGR's work on their website; my first impression was that their activities largely comprised volunteer work, such as issuing the *ejournal* in support of engineers and scientists in developing countries. This was also the general idea conveyed to me by the General Secretariat in Bonn.

My second impression of CIGR was that it was *autonomous*. This word had a major impact on me. I got the impression that the academic works and activities of CIGR are independent of national governments regardless of when and where they were carried out. Article 2 in the CIGR statutes maintains that the general purpose of CIGR is to serve humanity—on a worldwide basis and with the help of its members—by fostering mutual understanding, improvement, and the rationalization of sustainable biological production systems. As I recall, this concept would be the main feature of CIGR governance and compliance.

2) About the *Ejournal*

Although Prof. Bill Stout, former Editor-in-Chief of *Ejournal*, made tremendous efforts to publish the *Ejournal*, most agricultural engineering scientists, including me, were more keen on the *Transaction of ASABE journal* because of its high IF scores; however, this score is not higher than that of journals in fields such as biology, physics, and medicine. Generally speaking, IF scores in the engineering field are not very high because academic citations among researchers do not get too many hits. Basically, research results in engineering will be cited by the engineers who belong to the applied fields, which explains why they do not need citations in their works.

In Japan, we spent a long time considering the IF scores for our field, Agricultural Engineering, as compared to Chemistry, Physics, Biology, and Medical issues, because the promotion of young scientists and engineers in Universities and Institutes depends on these scores. Finally, the Science Council of Japan announced that IF scores should be taken into account in scientists' evaluation on a case-by-case basis depending on the scientific field (Unfortunately, this announcement has been issued only in Japanese, not in English).

Thus, as you can understand from what I have stated above, IF scores are not goals, but rather they are outcomes.

It seems that Thomson Reuters rejected the CIGR *Ejournal* in their 2008 evaluation and hence, the number of citations for the CIGR *Ejournal* is quite low. Reuters asked the then Editor-in Chief, Professor Fedro, whether they would apply for the IF evaluation of the CIGR journal in 2010. This will definitely prove to be a major challenge.

For this challenge we need to think about the following:

- a) Arbitrary citations will not last long.
- b) Academic activities carried out in mutual collaboration with research works will increase citation scores in the same field.
- c) Agricultural engineers and scientists must submit their reports to related academic fields. This increases the citation scores of works from outside academic fields.
- d) It will take a long time to obtain the evaluation of IF. This requires an understanding among the CIGR members to gradually begin to maintain high standards



Prof. Emeritus Takaaki
Maekawa

for the academic report.

To help with the issue in point c), we intend to consult with Prof. Da-Wen Sun. He has been ranked among the top one percent of agricultural scientists from around the world in CIGR NL No. 81, according to the Essential Science Indicators (ESI) database.

I had once submitted a paper for wastewater treatment using an elect-chemical methodology, which again received a low IF evaluation. This issue will be met as per point d). The American Chemical Society informed me that our submitted paper was cited more than 30,000 times in various references.

Although this phenomenal increase in the number of citations was not what Professor Da-wen Sun and I had aimed for; it

was nevertheless one of the achievements of the academic activities we undertook together.

I wish all the members of CIGR success in all your research endeavours and promise to contribute to the production of agricultural goods as well as the protection of world nature and environment through the advancement of engineering and the associated sciences.

Finally I would like to thank you all for your constant support over the past four years.

I look forward to seeing you all during our XVII CIGR World Congress in 2010, which is to be held in Quebec, Canada.

*Prof. Emeritus Takaaki Maekawa
Secretary General of CIGR*

CIGR World Congresses and Internatinal Conferences, 2010–2014

The XVII CIGR World Congress 2010 Québec, Canada, 13–17 June 2010

<http://www.cigr2010.ca>

Summary

The local organizing committee has been busy over the last two years planning the CIGR World Congress in Quebec City, Canada. The Congress will be held in June 13-16, 2010; detailed information is available on its web site (www.cigr2010.ca). The period to submit abstracts was extended until December 15, 2009. Another period to submit abstracts for posters only is planned in January-February 2010; check the website. Several groups are meeting jointly with CIGR 2010. Organizers received more than 850 abstracts and expect a similar number of delegates.

Planning of Congress

The XVII World Congress of CIGR will be hosted by the Canadian Society for Bioengineering/ Société canadienne de génie agroalimentaire et de bioingénierie (CSBE/SCGAB) in Québec City between Sunday 13 June and Wednesday 16 June, 2010.

Several groups and events will convene at the same time:

- XVII World Congress of CIGR, Presidium and all seven technical sections
- 52nd Annual Meeting of CSBE/SCGAB (Dr. Stéphane Godbout, Chair of the Local Organizing Committee; Dr. Philippe Savoie, Chair of the Scientific Committee)
- ASABE's 9th International Drainage Symposium (IDS; a signed agreement exists with ASABE; contacts: Sharon McKnight at ASABE; Dr. Ali Madani and Dr. Gary Sands)
- 8th World Conference on Computers in Agriculture (WCCA), sponsored by INFITA, the International Network for Information Technology in Agriculture (contact: Dr. Fedro Zazueta)
- 10th Annual Meeting of the American Ecological Engineering Society (AEES; contacts: Dr. Stacy Hutchison and Dr. Marty Matlock)
- 13th Inter-Regional Conference on Land, Water and Environment Management – EnviroWater 2010 is planned by Section I of CIGR (contact: Dr. José Tarjuelo)

- Symposium on Nanotechnologies Applied to Biosystems Engineering and the Environment – Nano 2010 (contact: Prof. Khaled Belkacemi)

Other special technical sessions are planned, notably in emissions from naturally ventilated buildings (contact Dr. Hisamitsu Takai), in aquacultural engineering (Dr. Eiko Thiessen and Mr. Ed Aneshansly), image analysis (Prof. Enrique Molto) and life cycle assessment (Dr. Stéphane Godbout). Another group, GP3A (Génie des procédés appliqué en agro-alimentaire), an international network of francophone food engineers, is planning its international meeting just after CIGR 2010 (17-18 June) in Quebec City (contacts: Dr. Michèle Marcotte and Dr. Cristina Ratti). In total, the meeting is expected to attract about 850 people (150 Canadians, 350 international delegates through the CIGR network, 100 people through IDS, 150 people through WCCA and 100 people through AEES). All participants will be able to attend any of the concurrent activities.

Scientific Program

The Congress has been organized to reflect the seven technical sections of CIGR plus five special groups (IDS, WCCA, AEES, GP3A, Nano 2010). When authors submit an abstract, they are asked to choose among one of the thirteen following technical tracks:

- ASABE's 9th International Drainage Symposium (IDS)
- 8th World Congress on Computers in Agriculture (WCCA)
- 10th American Ecological Engineering Society Annual Meeting (AEES)
- Génie des Procédés Appliqué en Agro-Alimentaire (GP3A)
- Symposium on Nanotechnologies Applied to Biosystems Engineering and the Environment
- CIGR Section I: Land and Water Engineering (including EnviroWater 2010)
- CIGR Section II: Farm Buildings, Equipment, Structures and Livestock Environment
- CIGR Section II-B: Aquacultural Engineering
- CIGR Section III: Equipment Engineering for Plants
- CIGR Section IV: Energy in Agriculture
- CIGR Section V: Management, Ergonomics and Systems Engineering
- CIGR Section VI: Postharvest Technology and Process Engineering
- CIGR Section VII: Information Systems

A 14th track is open for general papers in areas not covered above. Some tracks are expected to merge (e.g. WCCA and Section VII). CIGR Section II developed an extended technical program in collaboration with the Aquacultural Engineering Society.

Four pre-conference workshops will be offered:

12-13 June, two-day workshop on a drainage model "DRAINMOD" organized by researchers from North Carolina State University (with one-day option on 13 June for nutrient flow analysis);

12 June, a one-day workshop on stream geomorphology by Prof. Andy Ward from Ohio State University;

13 June, one-day workshop on Life Cycle Analysis, organized by AEES (Dr. Marty Matlock)

13 June, a one-day workshop on biomass logistics by Prof. Shahab Sokhansanj from the University of British Columbia.

Five post-conference tours are planned on Thursday 17 June: water management tour, livestock engineering tour, food engineering tour, biomass harvest and conversion tour, large-scale hydro-electric dam. Details are on the web site (www.cigr2010.ca).

The page to receive abstracts has been open since 6 July, 2009. IDS requested an early deadline for paper proposals (15 September, 2009) because they have a review process of articles. By mid-October 2009, more than 100 abstracts were accepted for IDS. All other technical groups had a general deadline for abstract proposals set on 20 November, which has been extended to December 15, 2009. Another 750 abstracts are currently being reviewed to prepare a preliminary program by the end of January 2010. Representatives of AEES promoted CIGR 2010 during the Ecological Engineering International Congress in Paris on 2-4 December, 2009. After evaluating the overall technical program, the scientific committee may consider the possibility of extending poster submissions for a short period in January-February 2010. Detailed instructions will be provided on the web site.

Other deadlines include: notification of acceptance of abstracts (one month after the deadline); reception of full papers (15 Dec. for IDS; 20 February, 2010 for all others); early registration (25 February, 2010 for all); final program (20 April, 2010); actual Congress 13-16 June, 2010.

Financial commitment of CSBE to CIGR

The CSBE/SCGAB will transfer \$20 US per full delegate to the CIGR Secretariat after the meeting. An agreement was discussed verbally in Bonn in 2006 with President Luis Santos Pereira who confirmed by email on 16 September, 2006: "The CIGR shall receive 20 USD for each participant that pays, thus excluding participants which are exempted of fees by the Congress organization and students paying reduced fees."

A formal contract was discussed between CSBE and CIGR in Potsdam, Germany in early September 2009 and signed by representatives of both organizations: President: Prof. Søren Pedersen and Secretary-General: Professor Emeritus Dr. Takaaki Maekawa for CIGR, Mr. Dennis Hodgkinson, President of CSBE and Dr. Philippe Savoie for the Local Organizing Committee.

Detailed schedule of meeting

Sunday 13 June, 2010, 19h00-21h00, Welcome Reception
Monday morning, 08h30-10h00, Opening Ceremonies – General Plenary session for all groups

Monday 14 June, 2010, 10h30-12h15, Concurrent technical sessions and posters

Monday 12h30-14h00, Lunch included for all attendees

Monday 14h00-17h00, Concurrent technical sessions and posters

Monday 20h00-22h00, Cruise on St. Lawrence River (included for all participants)

Tuesday 15 June, 2010, 8h30-10h00, Concurrent technical sessions and posters

Tuesday, 10h30-12h15, Concurrent technical sessions and posters

Tuesday 12h30-14h00, Lunch included for all attendees

Tuesday 14h00-16h00, Concurrent technical sessions and posters

Tuesday 16h30-18h00, CIGR General Assembly

Tuesday 18h00-18h30, CIGR 80th anniversary Celebration Ceremony

Tuesday 19h00-22h00, Joint CIGR and CSBE/SCGAB Awards Banquet (ticket included for delegates, optional for students)

Wednesday 16 June, 2010, 08h30-10h00, Concurrent technical sessions and posters

Wednesday, 10h30-12h15, Concurrent technical sessions and posters

Wednesday 12h30-14h00, Lunch included for all attendees

Wednesday 14h00-15h30, Concurrent technical sessions and posters

Wednesday 16h00-17h00, Closing Ceremonies, free evening

Thursday, 17 June, 2010, Optional technical tours

Registration fee structure

The registration fee (early-bird, before February 25, 2010) is set at \$750 for a full delegate from a developed country and \$600 for a full delegate from a developing country. Student fees will be half (\$375 and \$300, respectively). Fees will include three lunches, Sunday evening reception, Monday night boat cruise and Tuesday Banquet (for full delegates only). A book containing all abstracts and an electronic support of the full proceedings will be available to delegates. Optional tickets for the banquet will be available at a cost of \$95. Regular registration after February 25, 2010 will cost \$100 or \$80 more for full delegates from developed or developing countries, respectively (half more for students).

A spouse program will be organized with full cost of \$175, including Sunday reception, Monday boat cruise and Tuesday Banquet. A walking tour on Monday morning will be organized for registered spouses to visit Old Quebec and suggest activities during the following days.

Needs of CIGR, Board and Sections Meetings

The Congress is being held in the Quebec City Convention Centre. Several rooms will be available from Sunday 13 June to Wednesday 16 June. Additional rooms can be reserved in the Convention Centre or adjacent Hilton Hotel on 12 June or 17 June for meetings of the Presidium, Executive Board or any CIGR Section which would like to hold a meeting. Costs of meeting rooms for all CIGR groups within the period of June 12-17, 2010 will be supported by the general Congress budget. Requests for meeting rooms can be sent to email below. A reminder will be forwarded to all Section Chairs and the Presidium later in March 2010 to finalize planning of meeting rooms.

Members of the CIGR/CSBE organizing committee

Stéphane Godbout (Chair of Organizing Committee), Philippe Savoie (Chair of the Scientific Program), Stéphane Lemay, Cristina Ratti, Damien de Halleux, Roger Thériault, René Morissette, Robert Lagacé (liaison with ASABE IDS).

*Prof. Philippe Savoie
Chair of the Scientific Programme, CIGR 2010
philippe.savoie@fsaa.ulaval.ca*

**CIGR-AgEng2012, International
Conference of Agricultural Engineering
on ‘Agriculture & Engineering for a Healthier
Life’, 8–12 July 2012—Valencia, Spain
<http://www.ageng2012.org/>**

CIGR and EurAgEng will celebrate a joint International Conference on Agricultural Engineering in 2012. The Conference will cover emerging research, current problems and new engineering solutions for addressing food production and rural activities as a means to enhance human wellbeing and promote social development. New concerns include new methods of agricultural and forestry production, and the preservation of natural resources and landscape by applying modern engineering concepts. A Healthier production needs to encompass higher social and economic benefits.

Technical Areas:

1. Power & Machinery for Plan Production (Tractors, Tillage, Fertilizing and plants)
2. Protected Cultivation, Greenhouse Technology
3. Land and Water System Engineering
4. Farm Buildings, Equipment, Structures and Environment
5. Fruit and Vegetable Cultivation Systems
6. Plant Protection and Harvesting
7. Forestry Mechanization and Wood Technology
8. Engineering Design and Analysis of Ecosystem Services
9. Postharvest Technology and Process
10. Safety and Health in Agro-food Systems
11. Rural Development & Communication
12. Rural Electricity and Other Energy Sources
13. Automation, Information Systems, Robotics and Precision Farming
14. Agricultural Engineering in Transitional & Developing Countries.
15. Management, Ergonomics and Systems Engineering
16. Agricultural Engineering University Curricula Harmonization
17. Open Topics

Important Dates:

- 1 October 2011: submission of abstracts on-line via AgEng2012 website
15 December 2011: Notification of acceptance of abstracts
15 March 2012: Submission of full papers
20 May 2012: Final programme

Registration Fees:

€520 for early registration for CIGR, EurAgEng, and ASABE members, €580 for non-members

Contact:

Prof. Florentino Juste

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Phone: +34 963 424 010 , Fax: +34 963 424 002

**Scope of the CIGR-AgEng 2012 Conference
in Valencia**

Dear All:

From 8–12 June 2012, the joint CIGR-AgEng2012 International Conference of Agricultural Engineering will be held in Valencia, Spain. This conference is organized by the CIGR (3rd CIGR International Conference), the European Society of Agricultural Engineering (AgEng2012), and the Spanish Society of Agricultural Engineering (SEAgIng).

The organizing committee is trying to encourage the active participation of all the Working Groups (WG) belonging to the organizing societies, in particular from CIGR and EurAgEng. For this reason, I would like to invite the current chairs of all the present WGs to organize parallel sessions under simultaneous thematic symposia focused on any topic of interest for the organizing Working Group.

Additionally, I am very pleased to provide you with an update on the parallel sessions already included in the 2012 Conference:

- **CFD - Applications on Agricultural Buildings** (CFD working group of the International Society of Horticultural Science –ISHS)
- **International Workshop on Computer Image Analysis in Agriculture** (CIGR Working Group on Image Analysis for Agricultural Products and Processes)
- **15th Inter Regional ENVIRO WATER** (CIGR-Section I: Land and Water Engineering)

We are also waiting for the approval and confirmation of the following symposia:

- **ILES – International Livestock and Environment Symposium**
- **ATOE – 5th Automatic Technology for Off-road Equipment** (CIGR – Power and Machinery).

Our initial proposal is to allocate one day, or at most one and a half days, for special concurrent parallel sessions or symposia, which will be organized by the Working Group representative in coordination with a delegate from the organizing committee. The acceptance of the papers proposed will also be decided by both the WG and the Conference Scientific Committee. The presented papers will be included in the conference proceedings.

I would really appreciate your feedback, as a WG chair, concerning this proposal and the possibilities for your WG to organize a thematic symposium at this joint conference. Although we are still working on our first announcement, and the date of the conference is still far away, it would be very helpful for the organizing committee to know of your thoughts about this proposal. Please, do not hesitate to contact me if you need further information or would like to discuss any detail; we will be delighted to work with you and coordinate a parallel conference led by your WG. I would also like to take this opportunity to announce this coming 2012 International Conference on Agricultural Engineering in Valencia for whose success we rely on all of you as WG chairs. Additional information is available at the conference website <http://cigr.ageng.com>. I am very happy

to count on your collaboration and will do my best to keep you updated by e-mail and especially at the AgEng2010 Conference in Clermont-Ferrand (France) and the World CIGR Congress in Québec (Canada).

See all of you in Valencia at the CIGR-AgEng2012 Conference!

Looking forward to hearing from you soon.

2 December, 2009

Prof. Florentino Juste

Chairperson of the Organizing Committee
of the CIGR International Conference 2012

The XVIII CIGR World Congress 2014

on

Agricultural & Biosystems Engineering -

Upgrading Our Quality of Life

16 – 19 September 2014, Beijing, China,

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 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)

NO.1 Beishatan Beshengmen Wai Beijing 100083 China

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.

Prof. Shujun Li
Executive Board Member of CIGR

A Call for the Nominations for the Executive Board and Section Board Members, including the Section Chairs

Elections will be held at the General Assembly of the XVII CIGR World Congress 2010 to be held in Quebec, Canada. During these proceedings, the General Secretariat asks all CIGR member societies, including individual members, and corporate members, and current Executive Boards members, Section Boards members, to nominate candidates as members of Executive Board and Section Board members, including the section chairs, whose term is from 2010 to 2013.

On the basis of the CIGR statutes revised in Brazil, the election procedures delineated in Articles 6, 7, and 8 are to be implemented. Moreover, all CIGR member societies are required to support the CIGR by means of a yearly fee, mentioned in Articles 4. 2. f, 5, and 6. The CIGR statutes have been listed on the CIGR website (www.cigr.org).

A tentative schedule for the election procedure is as follows:

- 1) Preparation of a list of CIGR national member societies, the regional societies, and the individual members by the 31st of January 2010.
- 2) The General Secretariat is to prepare a list of each of the members who will vote as stipulated in Chapter III, No. 1 of Article 6 by the 31st of January 2010.
- 3) The deadline of the nomination of candidate for election is 28th February 2010.
- 4) The CIGR Presidium calls for that the General Secretariat and the Secretary General prepare lists of candidates to be voted and delegates who will be voting in the General Assembly by the 12th of March 2010.
- 5) The General Secretariat sends a list of candidates and ballots attached along with the rules of voting to the delegates (the respective members) who are eligible to vote by the 31st of March 2010.
- 6) The voting deadline is the 10th May 2010. The delegates must have sent the ballots to the General Secretariat via post or a facsimile.
- 7) The General Secretariat prepares a list of the elected members and verifies whether the number of votes is proportional to the number of full members from each regional and national member society and further determines the number of effective votes in terms of whether the member societies have met the condition of paying the fees, by 12th May 2010.
- 8) The General Secretariat prepares the final list of candidates and proposes that the results of voting would be ratified in the General Assembly of VXII

CIGR World Congress 2010 to be held in Quebec.

- 9) All the elected officers are to commence their functions from 1 January 2010 for four years.

CIGR Awards and Prizes General Instructions

The International Commission of Agricultural and Biosystems Engineering – CIGR presents several awards seeking the recognition of exceptional and meritorious achievement of its affiliated professionals and officers.

Awards:

CIGR Merit Award

Recognition for those members who did remarkable work for CIGR

Honor

For CIGR ex-officers who made remarkable achievements during their mandate. The following titles as a special certificate may be granted:

Honorary President; Honorary Vice - President and Honorary Member

Fellows

In recognition of meritorious achievements for the development of CIGR

Recognition (President's Citation)

In recognition of exceptional contribution to CIGR. It can be granted as: Certificate of Contribution, Certificate of Achievements, Certificate of Presentation or Participation (especially for students) or other specific certificate.

National/Regional Awards

Honoring achievements during the organization of a World Congress or Conference

Prizes:

Armand BLANC Prize

Granted to young authors (<30) for presentation of outstanding papers (limited to three awardees) to be presented at the World Congress or Conference. The purpose of this award is to increase motivation among young researchers contribution to research and development in agricultural engineering.

E-Journal Prize

Granted to authors with papers published in the CIGR Ejournal.

Applying for a CIGR Award or Prize:

In order to apply for the CIGR Awards or Prizes, the following documents are needed:

- A 200-word summary highlighting the main elements of the application to the corresponding Award or Prize.
- Three letters of support from CIGR members affiliated to National or Regional Societies.

When submitting it:

Dead line for Award Submission: 24 March 2010

How to submit:

Documents need to be sent electronically to CIGR General Secretariat

What to expect after submission:

- **Confirmation of Receipt:** The applicant will get an email confirming the application submitted electronically.

- **Notification:** The applicant will be notified by 30 April 2010 on the status of the application.

Awards and Prizes Judging Committee:

The CIGR Awards and Prizes applications will be reviewed by a Special Committee which indicates the nominations to the Presidium. The Presidium analyses the indications and select the awardees.

Additional information:

- The CIGR Awards and Prizes Ceremony will take place during the XVII World Congress 2010 on 15 June 2010.
- The National/Regional Award nomination is decided by the Presidium together with the Organizing Committee of the World Congress or Conference.
- The Ejournal Prize nomination is decided together with the Editor or Coordinator of the Ejournal.
- Affiliated Societies may indicate applicants for more than one award if they meet the eligibility requirements. In such cases, an award application must be submitted for each Award or Prize.
- Those who miss out on an award can apply again.
- None presidium member or related persons who represents conflict of interest are eligible to any Award or Prize during their mandate.

The CIGR Presidium Uses VOIP to Hold Business Meetings

By statute, CIGR Presidium meetings must be held two times in the year. During the regular Presidium meeting in Chile this past January, a decision was made to hold meetings online. The purpose of this is to increase the frequency of the meetings so that CIGR business decisions, and follow up actions, are conducted more efficiently. The past two meetings of the Presidium were conducted online using Skype. This will help assess the possible merits of communicating this way and holding formal meetings. It was recognized that substantive savings in travel can be attained as well as a reduction of carbon footprint. At this time, there is agreement that the face to face Presidium meetings are required and the online meeting is auxiliary to the formal Presidium meeting.

The Presidium met twice on Skype, on November 29 and December 16, 2009. The first Skype meeting linked offices of Denmark, USA, Brazil (could not connect due to a power outage) and Japan. The agenda included: 1) Celebration of the 80th CIG anniversary during the CIGR World Congress in Quebec, 2) Statutes of the EJournal, 3) CIGR awards processes, and 4) Individual membership and its definition in the CIGR Statutes. During these online meetings the Presidium had productive discussions. As a result, the Presidium will continue online meetings, the next one using a Skype on January 20, 2010.

If CIGR members have comments and suggestions for the Presidium having please send to the Presidium members by E-mail.

*Prof. Emeritus Takaaki Maekawa
Secretary General of CIGR
Prof. Fedro Zazueta
Incoming President of CIGR*

Handing over of the CIGR Secretary General from 1 January 2010

The outcomes of the election of the new Secretary General were approved by the General Assembly at the 2008 CIGR International Conference held in Iguassu Falls City, Brazil.



Prof. Toshinori Kimura

On 1 January 2010, the post of Secretary General and the administration of the General Secretariat will be handed over from Prof. Emeritus Takaaki Maekawa, University of Tsukuba, to Prof. Toshinori Kimura, Hokkaido University, Japan. Prof. Toshinori Kimura's tenure will last 4 years, from 1 January 2010 to 31 December 2013.

Secretary General: Prof. Dr. Toshinori Kimura,

TEL/FAX: +81-11-706-2552,

Email: toshibio@bpe.agr.hokudai.ac.jp

New General Secretariat:

Research Faculty of Agriculture, Hokkaido University,

N-9, W-9, Kita-ku, Sapporo 060-8589 Japan

TEL/FAX: +81-11-706-3777

Email: cigr_gs2010@bpe.agr.hokudai.ac.jp

Next CIGR meetings

The next CIGR meetings, including the Presidium meeting, Executive Board meetings, Technical Board meetings Section Boards meetings, Working Board meetings and General Assembly at the XVII CIGR World Congress 2010 in Quebec, Canada (<http://www.cigr2010.ca>). The Congress will be held in Québec City, Canada on 13 to 17 June, 2010 at the Québec City Convention Centre.

Schedule of 2010 CIGR Meetings in Quebec

Date	Time	Meeting
Saturday, 12 June	8:30– 14:00	CIGR Presidium meeting
	14:30– 17:00	Executive Board meeting
	18:30– 21:00	Working Gropes meeting
Sunday, 13 June	9:00– 12:00	Technical Board meeting
	13:00– 17:00	Section Boards meeting
Tuesday, 15 June	16:30– 18:00	CIGR General Assembly
	18:00– 18:30	CIGR 80th Anniversary Celebration Ceremony
	19:00– 22:00	Joint CIGR and CSBE/SCGAB Awards Banquet

2. NEWS FROM REGIONAL AND NATIONAL SOCIETIES

Report of the 2009 CIGR International Symposium of the Australian Society for Engineering in Agriculture

The 2009 CIGR International Symposium of the Australian Society for Engineering in Agriculture (SEAg) was held from 13–16 September 2009 in Brisbane, Australia. This biennial event is hosted by SEAg to provide a unique forum for local and international delegates to share ideas and discuss diverse topics related to Agricultural Engineering. This year the main focus was on climate change in its broader sense incorporating not just climatic changes, but changes associated with economical, social and environmental conditions.



Prof. Thomas Banhazi

The 2009 Symposium was attended by 94 delegates including engineers, academics, students, scientists, researchers and industry representatives. More than half of the delegates came from overseas representing approximately 20 different countries and all the five continents. The program was highly informative with almost half of the papers relating to the field of information engineering, incorporating interesting topics such as sensor development, data mining, signal processing and modelling studies. The remainder of the presentations reported on diverse topics related to all aspects of agricultural engineering (including post harvest technologies, food processing, machinery design, tillage optimization, irrigation, water, livestock, and environmental management, etc.) making the 2009 Symposium a truly informative event. In total the Symposium featured 80 oral presentations and 29 poster presentations. High profile keynote speakers from Europe and Africa (Prof. Daniel Berckmans from the Catholic University of Leuven, Belgium; Prof Joerg Hartung from the Institute for Animal Hygiene, Animal Welfare and Farm Animal Behaviour, Germany and Prof. Jeff Smithers of the University Kwazulu-Natal, South Africa) initiated the Symposium with thought provoking presentations.

The Symposium also hosted two successful social events (the welcome cocktails and the Symposium dinner) to ensure that delegates had an opportunity to meet socially with old friends,



The 2009 CIGR International Symposium of SEAg in Australia

colleagues and other delegates. Prof Graham Baker, Deputy Vice-Chancellor (Scholarship), University of Southern Queensland, was the guest speaker at the Symposium dinner. At the dinner, Dr Thomas Banhazi of South Australian Research and Development Institute received the SEAg Engineering Innovation award, and Ross Macmillan, University of Melbourne agricultural engineer, received his SEAg Life Membership award.

The two-day Post-Symposium Tour offered delegates the opportunity for an additional tour throughout South East Queensland. The tour gave an overview of local agricultural industries including the Queensland Primary Industries and Fisheries research station in Gatton and a number of farms in the proximity of Brisbane. The 2009 Symposium was supported by CIGR and sponsored financially by the University of Southern Queensland, Grain Research and Development Corporation and Engineering Australia.

Dr Thomas Banhazi, 2009 SEAg Co-convener (Chair of Scientific Committee)

Senior Research Scientist (SARDI) and Associate Professor (USQ, School of Engineering) Roseworthy Campus, University of Adelaide, Roseworthy SA, 5371 Australia, e-mail: thomas.banhazi@sa.gov.au

Mr. Erik Schmidt, 2009 SEAg Co-convener (Chair of Organising Committee)

Director of National Centre for Engineering in Agriculture, University of Southern Queensland (USQ) West Street, TOOWOOMBA, QLD, 4350 email: Erik.Schmidt@usq.edu.au

Report of the fourth International Conference on 'Energy Efficiency and Agricultural Engineering'

**1–3 October 2009, Angel Kanchev University of Rousse,
Bulgaria**

The fourth International Conference on Energy Efficiency and Agricultural Engineering was held at the Angel Kanchev University of Rousse from 1–3 October 2009.

The main objectives of the conference were to promote exchange of research results, scientific ideas, and their practical implementation concerning energy efficiency in agriculture and to assist personal contacts among scientists, professors, and specialists.

The conference was organized by the Bulgarian National Society of Agricultural Engineers (ERA) in cooperation with the 4th section of CIGR, EurAgEng (Special Interest Group 23), Union of Scientists, Association of Agricultural Engineering in South-Eastern Europe (AESEE), Federation of the Scientific Technical Unions, Angel Kanchev University of Rousse.

Ninety scientists from Russia, Japan, Austria, Czech Republic, Poland, Romania, Turkey, and other countries

participated in the conference. In addition, well-known scientists from Bulgaria and Rouse University participated. Countries represented for the first time were USA, Japan, France, and Iran. Each participant presented one or more papers, in the preliminary stage, published in conference proceedings book.



The 4th International conference in Bulgaria

The conference papers were thematically divided into two main sections:

1. 'Renewable energy, energy efficiency, and management';
2. 'Machinery, technology and ecology'.

The plenary session started with presentations by American scientist Prof. Ramesh Kanwar from Iowa State University and Bulgarian professor Kondy Andonov from Rouse

University.

During the conference, contracts for cooperation and partnership were signed, aimed at further expansion of the university's spheres of development and consolidating its position in the international scientific arena. The following contracts and results were accomplished:

1. Partnership contract with the Moscow State Agro-engineering University; special guest at the conference was the Vice Rector in scientific development, Prof. Vladimir Strelcov;
2. Discussion regarding the creation of a 'Teaching Excellence Center' was organized with scientists from Iowa State University, USA;
3. Contract for cooperation in the area of photovoltaic systems was signed with SOLARPRO SA—the biggest producer of thin layer photovoltaic modules in Bulgaria;
4. 'Round table' was organized for discussion of the possibilities for scientific cooperation between Bulgaria and Japan. Special guests were scientists from Kobe University Japan.

Prof. Dr. Nicolay Mihailov

Vice Rector

"Angel Kunchev" University of Rouse

Phone : 00359 82 888 843

Fax. : 00359 82 845 708

E-mail: mihailov@ru.acad.bg

3. NEWS FROM SECTIONS AND WORKING GROUPS

Minutes CIGR Section II Board Meeting on 7 July 2009 in Wageningen, NL

Participants:

Daniel Berckmans; Eberhard Hartung; Giovanni Cascone; Reiner Brunsch; Erik Franken; Christina Umstatter; Pastell Matti; Anna Rydberg; Andre Aarnink

Apologies:

Thomas Banhazi; Richard Gates; Eileen Fabian Wheeler; Shuso Kawamura; Tadeusz Kuczynski; Krister Sällvik; Hisamitsu Takai; Victoria Blanes-Vidal

Non participants:

Joseph Flaba; Li Baoming; Gert-Jan Monteny; Daniella Jorge de Moura;

1. Updates to member list of CIGR Section II
Member list to be updated by Eberhard Hartung
- 2,3. New members/Proposal for the next term /CIGR Section II Elections 2010 at the CIGR World Congress in Quebec, Canada
The following decisions with respect to the proposal of the CIGR Section II Elections 2010 were taken:
 - Thomas Banhazi will be promoted to Section Chair;
 - Eberhard Hartung will be promoted to Section Vice Chair;
 - Giovanni Gascone will be promoted to Section Secretary;

- Panagiotis Panagakis to become the Section member representing Greece;
- In-Bok Lee to become the Section member representing Korea
- Victoria Blanes-Vidal is accepted by Spain to be their representative for the next term, also working in Denmark;
- Gert-Jan Monteny, Krister Sällvik and Tadeusz Kuczynski will be asked if they would like to stay on as members or if they will join the section as guests.

4. CIGR E-Journal

Thomas Banhazi and Andre Aarnink will supervise the review process for the CIGR E-Journal.

A clear proposal for the proceedings of the reviewing process will be put forward by Thomas Banhazi.

A matrix to give an overview of the current review process and the completed reviews will be provided by KU Leuven (Daniel Berckmans).

5. Activities

CIGR Section-II Working Group 'Animal Housing in Hot Climates' has placed its 'Glossary of Terms on Animal Housing Basic Engineering, Physical and Physiological Definitions' on the CIGR-Website (<http://www.cigr.org/CIGRWorkingGroupReports.htm>).

Members and guests of CIGR-Section II are strongly urged to use the Glossary for their activities and to make others aware of it.

6 Conferences

a. This conference

The conference was very well organized, with a good infrastructure.

b. Upcoming conferences

The next Joint International Agricultural Conference on ECPA and ECPLF will be held in Prague in 2011; Daniel Berckmans and Kees Lokhorst will organize the local arrangements for the next ECPLF (one PLF room is preferred; enough posters should be displayed).

c.

-13–17 June, 2010; The XVII CIGR World Congress 2010, Quebec, Canada (<http://www.bioeng.ca/cigr2010/>) A session on 'Emission Measuring Techniques' will be planned in connection with the CIGR World Congress in Quebec 2010.

-A session on 'Natural Ventilation and Emissions' will be organized by Hisamitsu Takai. A session on 'Aquaculture' will be organized by Eberhard Hartung.

-ASABE just switched their 2010 annual meeting (June 20–23) to Pittsburgh, Pennsylvania.

-March 2–5, 2010; First North American Conference on 'Precision Dairy Management'; Second North American Conference on 'Robotic Milking'; Toronto Canada (<http://www.precisiondairy2010.com/>).

-October 23–25, 2009; CIGR Section II Working Group: 'Animal Housing in Hot Climates', Chongqing, China (<http://www.cigr.org/documents/animalhousingworkshop2009announcement.pdf>).

-July 19–23, 2009; XIV ISAH Congress 2009 Sustainable Animal Husbandry: 'Prevention is better than cure' (<http://www.isah2009.info/>)

-August 24–27, 2009; EAAP 2009 60th Annual Meeting of the European Federation of Animal Science (<http://www.eaap2009.com/>)

7. Others

a. Shorter name for Section II (suggestion: Structures and Environment)

Suggestions for a shorter name for Section II should be e-mailed to Eberhard Hartung and will be discussed finally at the Section II meeting at the CIGR World Congress in Quebec 2010.

b. Next meeting of CIGR Section II

The next Section II Board Meeting will be held during the XVII CIGR World Congress 2010, Quebec, Canada,

13–17 June, 2011; detailed information on the location and time schedule for the meeting will be provided in good time before the conference.

c. \$500 Dollar Budget of Section II

Ideas on what to do with the budget of US\$500 should be sent to Eberhard Hartung. A final decision will be taken at the Section meeting in 2010 in Quebec.

Report of CIGR Section III Activities

Hermann Auernhammer, Markus Demmel, and Section III Chair John K. Schueller arranged a special event in northern Germany from 3–9 November. The 'Next Leaders' event consisted of three activities for some of the emerging public sector leaders of the topic of agricultural machinery. On the first two days the group visited the main factories of five German equipment manufacturers: GEA Farm Technologies, Krone, Amazone, Claas, and Müller Elektronik. The group learned about the products of those companies and their manufacture. For the next two days they participated in the LAND. TECHNIK AgEng 2009 (67th International Conference on Agricultural Engineering) in Hannover. There were presentations on the latest research and commercial developments. Finally, they spent two days along with the 350,000 people visiting Agritechnica, the world's largest exhibition for agricultural machinery and equipment. They attended the exhibition dinner in which Germany's Minister of Agriculture presented five gold medals for the best innovations at the exhibition. In addition to the diverse technical program, the participants benefited from a week of close interactions with their international colleagues that will lead to further cooperation and future professional leadership. Participants attended from Brazil (Jose Paulo Molin and Daniel Marcal de Queiroz), Canada (Qamar Zaman), Chile (Stanley Best), China (Ou Yinggang), Germany (Hermann Auernhammer and Markus Demmel), Japan (Michihisa Iida and Kota Motobayashi), Malaysia (Chee Wan Chan), Spain (Francisco Rovira-Mas), United Kingdom (Abdul Mouazen), and the United States (John K. Schueller and Qin Zhang). In addition, another group (Matthew Darr, John Fulton, Tom Fulton, Mark Schrock, Scott Shearer, J. Alex Thomason, and Randy Taylor from the United States) also participated in the same activities and interacted with the CIGR participants. Section III expresses gratitude to the German companies and institutions for their support.

*Prof. John K. Schueller
Chairperson of Section III*



Next-Leaders-Amazone-cropped

Report of the 31st CIGR Section IV International Symposium

The Symposium was organized on the 30th of August-3. September in Gödöllő, Hungary, together with the 33rd Conference of the Agricultural Engineering, organized by the Hungarian National Committee of CIGR and the Mechanical Faculty of the Szent István University.

The main topics of the Symposium were the Rational Use of the Regenerative Energy Sources

In Connection with Environmental Protection (solar energy, wind energy, geothermal energy, biomass energy, heat pumps, hybrid power plants).

On the Conference have participated 165 scientists from 33 countries. It has been there 76 papers, and 81 posters.

After the conference was organized a One-day Study Tour with professional and cultural programmes, and a two-days Post-congress Tour.

Prof. Dr. Zoltán Sibalszky
Honorary Vice-President of CIGR

4. CIGR SUPPORTED ACTIVITIES

2nd International Conference

on

Machine Control & Guidance

March 09 - 11, 2010

University of Bonn, Germany

Faculty of Agriculture

<http://www.mcg.uni-bonn.de/>

The conference will include about 15 sessions with oral presentations, a poster session and demonstrations as well as a welcome party and a social event. The official language will be English. Manuscripts and presentations should be written and presented in English.

The importance of 3D-position sensors for the navigation of machinery on construction sites of roads, tunnels, railways, and airports has increased over the last years and the market is still growing. Also in the field of agriculture GPS-based applications such as machine guidance, parallel tracking and yield mapping are well introduced.

After the 1st conference was successfully held in 2008 at ETH Zürich, researchers, academics, users, system and service providers are invited to participate in the 2nd International Conference on Machine Control & Guidance and thus to initiate a technical and scientific discussion, to interchange know-how, to bond synergies between the

different applications and to boost research activities in this highly interesting field.

The following topics will be discussed:

- Kinematic Measurement and Sensor Technology
- Agriculture Applications (State of the Art, Trends)
- Major Construction Projects
- Standardisation
- Data Processing /Data Flow
- Control Process and Algorithm
- 3D-Construction Applications (State of the Art, Trends)
- Field and Soil

Registration Fees:

350€, Regular Participants

200€, Authors

130€, Students (with ID*)

Note: There is a 50 € late *registration* fee for registrations arriving *after* 31. January 2010.

Conference Directors:

Prof. Dr. Heiner Kuhlmann

Prof. Dr. Peter Schulze Lammers

Conference Administration:

Faculty of Agriculture, University of Bonn

Meckenheimer Allee 174, D-53115 Bonn

E-Mail: MCG@uni-bonn.de

www.mcg.uni-bonn.de, Tel.: 0049/228/73-2620

5. OTHER ACTIVITIES

Report on Attending the FAO Council Meeting on Behalf of CIGR

The 137th Session of the FAO Council was held in the FAO Headquarter in Rome from 28 September to 2 October 2009. All the items discussed are FAO issues including activities of FAO such as appointments of various committees, FAO programme, budgetary, financial, and administrative matters, in particular the Strategic Framework 2010–19, Medium Term Plan 2010–13 and Programme of Work and Budget 2010–11, and FAO constitutional and legal matters.

Participants at the Council Meeting included 49 Members of the Council, each with one to ten representatives; 67 observers from Member Nations which are not members of the council, each with one to five representatives; Holy See;

Sovereign Order of Malta; observers from intergovernmental organizations—League of Arab States; and observers from non-governmental organizations—Action Group on Erosion Technology and Concentration, International Alliance of Women, CIGR, International Council of Women, International Federation for Home Economics, Rotary International, Women's International League for Peace and Freedom. I believe a significant number of NGOs to have been invited by FAO for the meeting. As CIGR is a NGO and is considered an observer, I was seated in the last row among the ranks of the other observers during the FAO Council Meeting. In addition, each observer can ask to give a speech of no more than five minutes if he/she wishes to do so during the meeting/debate.

Although there is little direct benefit to CIGR, if resources are available, it will still be beneficial for CIGR to attend

such meetings in future for better knowledge of the general policies and developments in the area of agriculture and food.

*Professor Da-Wen Sun,
National University of Ireland, Dublin
Coordinator of CIGR Working Groups
Honorary Vice-President of CIGR*

In memoriam for Professor Pierre ABEELS

Professor Pierre ABEELS, honorary professor at the Université Catholique de Louvain, passed away on 29th of Octobre 2009, at the age of 79.

Professor Pierre ABEELS obtained an agronomic and forest engineering degree from the Université Catholique de Louvain in 1955 and a PhD degree from the same university in 1969. Between 1995 and 1995, he developed high quality teaching and research at the interface between agricultural mechanisation and forest science. This synergy resulted in a reference work 'Génie forestier' that was published by Masson (France), in 1995.

Professor Pierre ABEELS started his scientific career in Africa, at INEAC (Institut National pour l'Etude Agronomique du Congo Belge) in Yangambi-Congo. After the independence of Congo, Professor Pierre ABEELS returned to Belgium in 1960 and in 1961 became an IRSIA scientific Director at the Belgium Centre for Forestry at Saint Hubert. In 1965, he returned to the Université Catholique de Louvain where he became integrated into the Agricultural Engineering department. In 1969, he presented his PhD thesis on wood sowing technologies, and became Associate Professor in the same department. In 1975 he became professor, in 1979 ordinary professor, and in 1991 head of the Agricultural Engineering Unit. He retired and became honorary professor of the Université Catholique de Louvain in 1995.

During his professional career, Professor Pierre ABEELS realised many scientific and professional education missions in the domain of agriculture and forest engineering all over the world. He was invited lecturer and researcher in more than 20 countries such as Algeria, Benin, Congo, Ivory Coast, Madagascar, Morocco, Nepal, Malaysia, and Russia. His teaching mainly dealt with forest engineering and agricultural mechanisation, but also with management of rural areas. He therefore carried out pioneering work in the area of sustainable development of rural areas. Author of more than 200 scientific publications, one reference book and three research licences, Professor Pierre ABEELS was also consultant for many international organisations and governments in Africa and Asia. He was a member of a set of professional organisations such as the Belgian Society of Agricultural Engineering (Société Belge de Génie Rural); the Union Belge des Sociétés d'Ingénierie Agricole ; the Commission Internationale en Génie Rural (CIGR) ; and the Society for Terrain Vehicle

Systems; to mention only few. Professor Pierre ABEELS received many scientific prizes and distinctions such as the International Kishida Award in 1998, granted by the American Society of Agricultural Engineers ; and the International Forest Engineering Achievement Award in

1999. With the death of Professor Pierre ABEELS, not only the Université Catholique de Louvain, but also the whole scientific community in the agricultural and forest engineering domain, lost a pioneer and source of expertise, whom we will never forget.

*Prof. Marnik Vanclooster
Head of the Agricultural Engineering Unit*

Renewable Energy 2010 Joint with 4th International Solar Energy Society Conference, Asia Pacific Region 27 June–2 July, 2010 Pacifico Yokohama, Yokohama, Japan <http://www.re2010.org/>

We welcome all of participants to pursue, research and develop renewable energy and energy saving addressing the advanced and innovative technologies, which are crucial for the all lives and ecological cycle in order for global sustainability. Global warming abatement to lessen its burden and the energy supply stabilization are mandatory to discuss. We have no time in modern history than ever.

The Renewable Energy 2010 addresses these issues through the regular meetings and exhibitions, bringing together representatives of all those involved in the supply, distribution, consumption, development of energy sources at every fields of business, industry, academia, government, and civil.

Conference Topics:

1. Policy, 2. Photovoltaic, 3. Solar Thermal Application, 4. Low Energy Architecture, 5. Wind Energy, 6. Biomass, 7. Hydrogen & Fuel Cell, 8. Ocean Energy, 9. Geothermal Energy, 10. Advanced Power Systems, 11. Heat Utilization & Energy Efficiency, 12. Small Hydro, and Non-Conventional

Key dates:

Dead line of abstract submission: 31 December, 2009/12/18

Notification of acceptance: during February 2010

Dead line of early registration: 31 March, 2010

Full paper submission in PDF file: during the Conference

Secretariat Office:

E-mail: re2010.sec@re2010.org

Tel: +81-3-3508-1250, Fax: +81-3-5283-5952

<http://www.re2010.org/>

June 27 (SUN)	June 28 (MON)	June 29 (TUE)	June 30 (WED)	July 1 (THU)	July 2 (FRI)	July 3 (SAT)
	SPECIAL SESSION PLENARY		OPENING KEYNOTE SPEECH	SPECIAL PLENARY		
REGISTRATION	ORAL Presentation & Discussion				CLOSING	
	POSTER		POSTER			
	ISES Conference					
	WORKSHOP, FORUM & EVENT, Mini Tour					TECHNICAL TOUR
WELCOME PARTY			BANQUET	VIP RECEPTION		
			RE 2010 INTERNATIONAL EXHIBITION (The 5th New Energy WORLD EXHIBITION)			
			PVJAPAN 2010 Focus PV : INTERNATIONAL EXHIBITION & FORUM			

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.

Table: 2009 Statistics for the CIGR Ejournal (January – December)

Issues	published 1
Items	published 46
Total submissions	242
Peer reviewed	93
Accepted	54 (58%)
Declined	39 (42%)
Resubmitted	32 (34%)
Days to review	72
Days to publication	103
Registered Users	1442 (1103 new)
Registered Readers	1116 (864 new)

Note that from January through September of this year, 242 manuscripts were submitted. The average time to conduct a review and publish a manuscript is less than 103 days. This is an increase from 60 days at the beginning of the year due to the large number of submissions. In addition, the acceptance rate for the CIGR Ejournal is about 54%.

The most important issues for the journal are:

- 1) To increase the number of citations. CIGR members are encouraged to use the materials in the journal as references.
- 2) To increase the number of members who are willing to conduct reviews in a timely manner. Currently, the reviewer database in the journal contains 1442 entries. This is an increase of over 200% for this year.

If you have not registered in the CIGR Ejournal, please do so by going to the Website and registering as an author and reviewer.

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

CIGR Section Boards (Elected in September 2006, updated in September 2008)

Section I:	<i>Land and Water Engineering</i>	(Chair: Jose M. Tarjuelo [Spain])
Section II:	<i>Farm Buildings, Equipment, Structures and Environment</i>	(Chair: Daniel Berckmans [Belgium])
Section III:	<i>Equipment Engineering for Plants</i>	(Chair: John K. Schueller [USA])
Section IV:	<i>Energy in Agriculture</i>	(Chair: Mikio Umeda [Japan])
Section V:	<i>Management, Ergonomics and Systems Engineering</i>	(Chair: Pietro Piccarolo [Italy])
Section VI:	<i>Postharvest Technology and Process Engineering</i>	(Chair: Jozef Grochowicz [Poland])
Section VII:	<i>Information Systems</i>	(Chair: Antonio Saraiva [Brazil])

All correspondence and information on forthcoming activities should be sent to:

CIGR General Secretariat

Professor Emeritus Dr. Takaaki Maekawa, Secretary General

University of Tsukuba

Graduate School of Life and Environmental Sciences

1-1-1 Tennodai, Tsukuba, Ibaraki 305-8572, Japan

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DISCLAIMER

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AMA

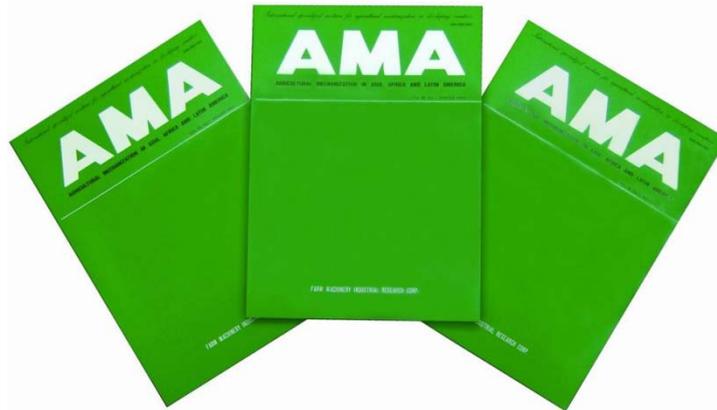
Agricultural Mechanization in Asia, Africa, and Latin America

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.

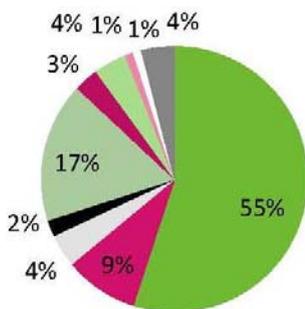
Presently, we have readers in over 120 countries, including members of government organizations, educational institutions, research and development institutions, industry, and distributors. Our journal has a particularly wide readership in developing countries that includes specialists such as policy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

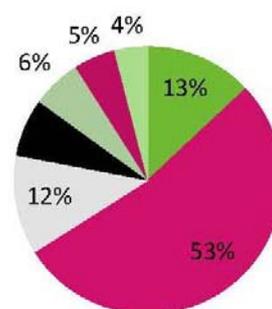


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Organizations with reading populations:



- 55% Asia
- 9% USA
- 4% South America
- 2% North America (Canada)
- 17% Western Europe
- 3% North Africa
- 4% South America
- 1% Eastern European countries
- 1% Oceania region
- 4% Japan



- 13% Government administrative bodies
- 53% Research organizations
- 12% Manufacturing / trading firms
- 7% Consultancies and investigation companies
- 6% Embassies abroad and intelligence agencies
- 5% Others
- 4% Japan

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