



International Commission of Agricultural and Biosystems Engineering

CIGR

Newsletter Quarterly

Newsletter No. 96
November 2012

Since 1930
82 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



Prof. Fedro Zazueta

Agricultural and biosystems engineering (ABE) has undergone substantial changes since its origins as a profession over 100 years ago. As science, technology and the role that engineering plays in society evolved, so did the ABE profession. By the end of the 20th century, ABE integrated engineering, agricultural, environmental, biological and information sciences.

As we move into the XXIst century, ABE is incorporating into its toolset new science and technologies that create new opportunities to solve old and persistent problems. The rapidly advancing fields of biotechnology, nanotechnology, brain science, materials science, and information (only to name a few) are rapidly evolving. Developments in these fields are shaping the profession and influencing its role in the solution of the problems related to food security, natural resources, the environment, fair distribution, and sustainability.

In this rapidly and complex changing setting, views on the competence of ABE are often outdated or misperceived. As a result ABE is often missing at the table where decisions in high level spheres are made.

Working towards improving the perception of ABE that different audiences and stakeholders have is a task for every ABE professional and organization. To address this issue, the CIGR Presidium has appointed a standing committee with the specific mandate to articulate specific goals, develop a strategy and a plan of action to increase the understanding and participation of ABE in regional national and international forums. This committee will focus on those forums where policy, strategy and allocation of resources are made.

Your input and ideas are welcome towards this purpose. Please do not hesitate to contact any member of the Presidium.

*Prof. Fedro Zazueta
President of CIGR*

Summarized Reports of CIGR Business Meetings Held in Valencia, Spain, on 7-10, July, 2012

Presidium Meeting: from 9:30 to 13:00 on 7 (Sat), at Hotel Melia Valencia

The 67th Executive Board Meeting: from 15:00-18:10 on 7 (Sat), at Hotel Melia Valencia

Technical Board Meeting: from 9:45 to 11:30 on 8 (Sun), at Polytechnic University of Valencia

Section Board Meeting: from 14:00 to 16:30 on 8 (Sun), at Polytechnic University of Valencia

CIGR Journal Meeting: from 16:30 to 18:30 on 8 (Sun), at Polytechnic University of Valencia

The 52nd General Assembly: from 18:30 to 19:30 on 9 (Mon), at Valencia Conference Centre

CIGR & EurAgEng Award Ceremony: from 18:30 to 20:00 on 10 (Tue), at Valencia Conference Centre

First of all, on behalf of CIGR members, Secretary General of the CIGR would like to extend his sincere appreciation to the Conference Organizer for their great efforts and hospitality which led to the conference being a resounding success. I would like to report some important decisions and approvals in the PM, EB, TB and General Assembly held there. As soon as reports of other meetings are sent from the chairs of each section or the representatives to the SG, they will be included in the CIGR Newsletter or on the website.

1) CIGR Election 2012

The results of the CIGR election regarding next Incoming President (servicing period: 2013-2018) and next Secretary General (servicing period: 2014-2017) was reported by the Secretary General, Prof. Toshinori Kimura in PM, EB and GA. The two candidates Prof. Tadeusz Juliszewski (Poland) for next Incoming President and Prof. Mikio Umeda (Japan) for next Secretary General were approved unanimously in the three meetings.

2) Membership applications

Membership of India (Indian Society of Agricultural Engineers, ISAE) as a CIGR National Member which had been approved in the 66th EB held in Tokyo in September, 2011, was authorized by the GA unanimously.

A new Corporate Member application from UNAPCAEM (United Nations Asian and Pacific Center for Agricultural Engineering and Machinery, Head Office in Beijing, China) was approved in the three meetings.

3) Financial report of the year 2011 and budget for the year 2013

The positive result of CIGR finances was reported by the SG and Prof. Taichi Maki reported on behalf of CIGR Auditors that the account processes in the financial report were done clearly and properly. The financial report was accepted in EB and GA.

The budget for the year of 2013 amounting to 28,000 EUR including a contingency fund amounting to 4,000 EUR was proposed by the SG. The budget proposal was also accepted in EB and GA.

4) Protection of the name and logo mark of CIGR

Recently, the SG has received inquiry from some Chinese private company that it wants to register names including "CIGR" in order to sell the copy right to customers who wish to establish a domain name or to use "CIGR". If we don't register "CIGR" by ourselves, it means that unless we take action to protect ourselves, we cannot use our own name of "CIGR" freely in any activities or even in our logo mark without paying the royalty for the use of "CIGR". The President of CIGR, Prof. Fedro Zazueta proposed that the first action to solve the problem should be taken in USA and China, and he reported that our registration processes had been started already.

5) CIGR Awards and Prizes

The Past President, Prof. Soeren Pedersen who is the chair of CIGR Award Committee reported the results of nomination.

Based on these results, 22 recipients in total were received certificates or plaques in the Award Ceremony. Two recipients of Armand Blanc Prize were also received prize money amounting to 200 EUR each from CIGR. The detail recipient list is available in this Newsletter.

6) New Working Groups and replacement of Working Group Coordinator

The establishments of two Working Groups, "Logistic" and "Precision Aerial Application" were reported in GA. It was approved without any opposition. In PM, the Incoming President and Working Group Coordinator in EB, Prof. Da-Wen Sun requested a replacement of Working Group Coordinator. The PM suggested Dr. Thomas Banhazi as a candidate for Prof. Da-Wen's successor.

7) Publications and Communications (Online Strategy)

(1) CIGR Journal: Due to the inadequate service of the journal editing in the past 2 years after Editorial office moved to China, the PM decided on the replacement of the Editor in Chief, Prof. Yingkuan Wang by Prof. Lanfang Zhang on 1 Jan., 2012. This decision was made after frequent discussion in PM and with China. In the EB meeting, Prof. Lanfang Zhang reported that currently the editing process has been improved and the number of submitted paper has increased since she took over. But some problems still remain in the activity of section editors and in the reviewer nomination. There were discussions that we should take keen action to gain in ISI citation and should consider the future of the editing system because the contract with China finishes in the fall of 2014. As separate CIGR Journal meeting was held on 8 July (Sun), where various discussions were made on improving the quality of the journal and the editorial system. The detailed report will appear in CIGR Newsletter accordingly.

(2) Handbook, Proceedings and etc: We started the on-line free access service of CIGR Handbook on our CIGR Website in 2011. Even though the contents of Handbook are said to be out of date, it must be very useful for developing countries. Also, we are creating a CIGR Proceeding site on our website where proceedings of CIGR sponsored events or events organized with the involvement of CIGR are maintained and available in perpetuity.

The President proposed e-textbook publication in place of publication of new handbook. The objectives are the same as those of the on-line Handbook.

8) Candidate of Host Country of CIGR XIX World Congress in 2018

As of 7 July, the SG reported he had received two applications to host the World Congress in 2018, one from Turkey and one from India. As the hearing of presentations from two countries was scheduled on 9 Jul, the President asked EB (8 July) to leave the final decision on this matter to PM and gained agreement. After hearing the presentations, the President proposed to General Assembly that Turkey be selected as the final candidate to host the World Congress in 2018. The proposal was accepted unanimously in GA.

9) CIGR Business Meetings Schedules in 2013 and 2014

(1) In 2013, CIGR business meetings of PM, EB, TB and SB are tentatively scheduled in the period of the 5th

International Conference; Trends in Agricultural Engineering 2013 to be held on 3-6 September, 2013, in Prague, Czech Republic. Detailed schedule of the meetings will be announced in CIGR Newsletter and on the Website later.

(2) In 2014, all the CIGR business meetings including the General Assembly will be held in Beijing, China during the period of the XVIII CIGR International Congress in September.

*Prof. Toshinori Kimura
Secretary General of CIGR*

Minutes of the 66th Executive Board Meeting

On Monday 19 September, 2011, from 13:30 to 16:10, Room Kensyushitsu, Tower Hall Funabori, Tokyo, Japan

Presented: President Fedro Zazueta, Incoming President Da-Wen Sun, Past President Søren Pedersen, Secretary-General Toshinori Kimura, Prof. John K. Schueller (ASABE), Prof. Shujun Li (AAAE), Prof. Taichi Maki (Japan), Dr. Shuso Kawamura (in place of Prof. Thomas Banhazi Technical Board), Mr. Yoshisuke Kishida (Co-opted)

Observer: Prof. Lanfang Zhang (Ejournal)

Excused: Prof. Daniele De Wrachien (EurAgEng), Prof. Omar Ulloa (ALIA), Prof. Nicolay Mihailov (AAESEE), Prof. Adolf Rybka (Czech incoming), Prof. Jerzy Weres (Poland), Prof. Peter Schulze Lammers (Co-opted), Prof. Vilas M. Salokhe (Auditor),

Absent: Prof. Oleg Marchenko (EAAAE), Mr. Emmanuel Hugo (France incoming), Prof. Daniel Berckmans (Co-opted), Prof. Jose M. Tarjuelo (Co-opted), Prof. Josse De Baerdemaeker (Auditor)

1. Welcome and Roll Call

The CIGR President welcomed the members and thanked them for attending the meeting.

2. Adoption of the Agenda

The agenda was adopted unanimously.

3. Approval of minutes of the 65th Executive Board Meeting of CIGR

The Minutes of 65th Executive Board Meeting were approved unanimously.

4. Activity reports from Presidium Members:

a) The President

- The Presidium had a meeting in Nantes, France in April 2011. The PM also held two or three Skype meetings in 2011, which expedited the business of the CIGR effectively.
- The President reported the current situation of the candidate recruitment of the next Incoming President from 2013.
- The President had a meeting in the USA with Prof. Peter Shults Lammers and Prof. Florentino Juste regarding the CIGR World Conference in Valencia 2012. At present, it is going on quite well and we can expect a high-quality successful meeting. They also made a presentation on the CIGR World Conference

Valencia 2012 in the ASABE meeting, which became a good advertisement.

b) The Secretary General

- CIGR Newsletters, No.90, 91, 92, and 93 have been published. The GS will work on No. 94 after this meeting. It seems to take a long time for Newsletter to be delivered from the society's office to its each member. The SG requested quicker delivery inside the society.
- The SG reconfirmed the system of supported and sponsored events. When the national (or regional) member or the Section hosts or co-organises the event, the event can be supported by CIGR. But, in order to use the name and LOGO of CIGR, members need to notify the event in advance to the SG and ask for the approval to use the name and LOGO of CIGR.
- Prof. Mikio Umeda (Japan) was approved as a candidate of the next CIGR GS/SG from 2014 unanimously.

a) The Past President

- The CIGR award is a very prestigious award. Right now, the Past President (Award Committee) has received little response from the Sections regarding the nomination of candidate awardees. In the meeting the Past President again requested the nomination of candidate awardees. People outside the Section also could be taken into account if the person did a good work for the CIGR.

b) The Incoming President

- The Incoming President, in charge of the Journal Policy Board, suggested two problems. The first one is that CIGR Journal has no index in ISI listing. The second is that publication of CIGR Journal is becoming very slow.

On this matter, Prof. Lanfang Zhang reported the present situation of CIGR Journal in place of Dr. Yingkuan Wang, where she gave several proposals to improve the situation.

One of the proposals was to increase the number of the Section editors to improve the efficiency of the management. This idea was agreed.

The Executive Board discussed how to improve the management process of the journal, how to improve the submission and rejection rate, and how to improve the number of reviewers and Section editors depending on the demand for each area. Also, the Executive Board confirmed the importance of creating awareness and education on the submission reviewing process.

5. Accounts and Budgets

- a) CIGR 2010 working account was reported by the SG.**
- b) Prof. T. Maki made a report on behalf of auditors. Auditors report on 2010 working account and their comments were approved.**
- c) CIGR accounting and budget of 2011 year and 2012 year were explained by the SG, and were approved.**

6. CIGR Bodies

- a) National and Regional Member Societies**
Membership proposal from India was approved.
- b) Sections**

The SG contacts Sections to publish the Sections' activity report and the MOSA for 2011-2014 both on the web and in the Newsletter.

c) Working Groups

Incoming President (WG Coordinator) announced the establishment of two new working groups, Logistics Working Group and Precision Aerial Application Working Group.

7. CIGR Information and Communication System

a) On-line Strategy

CIGR recently created the site for CIGR Proceedings, where proceedings of CIGR sponsored events or events organized with the involvement of CIGR are maintained and available in perpetuity. Our next step is to collect and put proceedings of any CIGR sponsored events on this particular system. The President requested the EB to offer this new option (putting the proceedings on this site for free) to the conference organiser, if they know that the people in their area develop a conference.

b) CIGR Handbook

Online service for 6 volumes of Handbook has started. So, they are now available for download for free on CIGR website.

As a next generation of Handbook, the Presidium proposed the idea to produce CIGR online encyclopaedia, something like Wiki, by making the table contents adopted from the current structure of Handbook, so Section individuals can contribute by adding the information online. Using this system, we can make future Handbook, cutting the workload and enabling updating dynamically. The President asked to bring back this matter to the Section and see the feedback.

8. Representatives of CIGR with ISO, OECD and FAO

As a representative of CIGR, the following members attended the meetings;

- Mr. Yoshisuke Kishida, Japan: the FAO 30th Regional Conference for Asia and the Pacific (APRC) held in Republic of Korea, 27 September - 1 October, 2010
- The Incoming President Prof. Fedro Zazueta: the 21st Annual Meeting of the Club of Bologna held in Bologna, Italy on 13 -14 November, 2010
- Prof. Paolo Menesatti, Italy: the 140th Session of the FAO Council held in Rome, Italy, 29 November - 3 December, 2010
- Prof. Paolo Menesatti, Italy: the 37th Session of the FAO Conference held in Rome, Italy, 25 June - 2 July, 2011

All above reports are available in Newsletters No. 91-93.

9. CIGR Congresses and Conferences

- a) The 3rd CIGR International Conference 2012, 7-12 July, Valencia, Spain**
- b) The XVIII CIGR World Congress 2014, 16-19 September, Beijing, China**
- c) The 4th CIGR International Conference 2016, 26-29 June, Aarhus, Denmark**
- d) Candidate for the XIX CIGR World Congress 2018**

Candidate nomination for CIGR World Congress 2018 is still open. French that showed their interest

last time suspended the proposal. The SG openly asked for nominations or proposals.

e) Other events sponsored by CIGR

Prof. Taichi Maki reported the CIGR International Symposium on Sustainable Bioproduction-Water, Energy and Food, WEF 2011 in Tokyo, Japan

10. Miscellaneous

Newly approved CIGR Supported events are as follows;

- International Conference on Agricultural Engineering “Synergy in the Technical Development of Agriculture and Food Industry”, 9-15 October 2011, Godollo, Hungary
- CropWorld Global 2011, 31 October-2 November 2011, London, UK
- 6th International European Forum (IglS-Forum) on System Dynamics and Innovation in Food Networks, 13-17 February 2012, Innsbruck-Igls, Austria

- 4th International Conference on Monitoring, Simulation, Prevention and Remediation of Dense and Debris Flow, 29-31 May 2012, Dubrovnik, Croatia

11. Date and location of next CIGR business meetings, Presidium, EB, TB, SB and General Assembly (Tentative)

a) The 3rd CIGR International Conference 2012, 7-12 July, Valencia, Spain.

The meeting ended at 16:10.

Prof. Fedro Zazueta
President of CIGR
Prof. Toshinori Kimura
Secretary General of CIGR

CIGR Awarding 2012

(Celebrated on 10th July 2012 at 3rd CIGR International Conference in Valencia, Spain)

Award	Person	Reason
CIGR Merit Award	Prof. Cengiz R. Akdeniz	Successful work in CIGR Section IV
	Prof. Lanfang Zhang	Contribution to the collaboration between the CIGR and China
	Prof. José Tarjuelo Martín-Benito	Remarkable work he performed for the CIGR
	Dr. Claus Grøn Sørensen	Successful work in CIGR Section V and promotion of cooperation with other international organizations
CIGR Fellow	Prof. Hermann Auernhammer	International leadership in research, standardization and commercialization of agricultural electronics
CIGR Recognition Award	Dr. Paolo Menesatti	His work as organizer of the 3rd CIGR Section VI Symposium, Naples, Italy, 2007
	Dr. Amauri Rosenthal	His work as organizer of the 4th CIGR Section VI Symposium, Iguassu Falls City, Brazil, 2008
	Prof. Alain LeBail	His work as organizer of the 6th CIGR Section VI Symposium, Nantes, France, 2011
	Prof. Florentino Juste	His work as President of the CIGR-AgEng Conference, Valencia, Spain, 2012
	Prof. Taichi Maki	His work as Chair of the CIGR International Symposium on “Sustainable Bioproduction - Water, Energy, and Food”, Tokyo, Japan, 2011
	Dr. Yutaka Kaizu	His dedicated service as Editor-in-Chief of the CIGR Newsletter
CIGR Journal Prize	Dr. Ngwa Martin Ngwabie	For the high quality scientific publication "Influence of environmental factors and the addition of wood shavings on ammonia and odour emissions from fresh livestock manure"
	Dr. Knut Hakan Jeppsson	
	Prof. Gosta Gustafsson	
	Dr. Sven Nimmermark	
	Er. Abhiman Arjun Sawant	For the high quality scientific publication "Effect of temperature, relative humidity and moisture content on germination percentage of wheat stored in different storage structures"
	Mr. Sujit Chandrakant Patil	
	Mr. Sandip Baban kalse	
	Dr. Nayansingh Jatansingh Thakor	
Armand Blanc Prize	Ms. Verónica Sáiz-Rubio	For the outstanding paper entitled “Comparative study of architectures for proximal sensing in vines”
	Dr. Di Wu	For the outstanding paper entitled “Non-destructive texture analysis of farmed salmon using hyperspectral imaging technique”
Honorary President	Prof. Søren Pedersen	His distinguished services during the period 2007-2012 as President of the International Commission of Agricultural and Biosystems Engineering

CIGR World Congresses and International Conferences, 2014–2016

The XVIII CIGR World Congress 2014 Agricultural & Biosystems Engineering - Upgrading Our Quality of Life Beijing, China, 16-19 September 2014

The 18th World Congress of the International Commission of Agriculture and Biosystems Engineering (CIGR) will be held in Beijing, China on September 16th to 19th, 2014. Under the energetic guide of the General Assembly of CIGR, this Congress will remain faithful to the pattern established in past CIGR World Congresses, while incorporating innovative new elements to promote exchange and collaboration among agricultural engineers, and to offer a unique opportunity to present the results of research and to discuss important issues from a global perspective.

For global agricultural engineering scientists, engineers and other professionals seeking to expand their knowledge of the field and learn about the most up-to-date advancements and discoveries, the 18th World Congress of CIGR cannot be missed. The special social and tour programs will also be arranged, it will give participants a wonderful taste of unique Chinese culture to entertain you and your family during and after the Congress. With tremendous support from CIGR, the Chinese Society for Agricultural Machinery (CSAM), the Chinese Society of Agricultural Engineering (CSAE), and many local, regional and international associations, the Organizing Committee will deliver the most dynamic and invigorating Congress to all of you.

The preparation has started smoothly and the Organizing Committee hereby is pleased to invite you and your association to join in this big event as much as you could. It is sincerely hoped that the 18th World Congress of CIGR in Beijing will bring all of participants together to share in the common goal of advancing and developing the field of Agricultural and Biosystems Engineering, and to provide a discussion forum on how to promote scientific and technological innovations in agricultural engineering into the new millennium.

SPONSORS

International Commission of Agricultural and Biosystems Engineering (CIGR)

Chinese Society for Agricultural Machinery (CSAM)

Chinese Society of Agricultural Engineering (CSAE)

CO-SPONSORS

Asian Association for Agricultural Engineering (AAAE)

Agricultural Engineers Association (AEA) (England)

German Agricultural Society (Deutsche Landwirtschafts-Gesellschaft, DLG)

Association of Overseas Chinese Agricultural Biological Food Engineers (AOCABFE-AOC)

United Nations Asian and Pacific Centre for Agricultural Engineering and Machinery (UNAPCAEM)

Additional societies and institutions will be available through the website: www.cigr2014.org

ORGANIZERS

Chinese Academy of Agricultural Mechanization Sciences (CAAMS)

Chinese Academy of Agricultural Engineering (CAAE)

China Agricultural University (CAU)

Theme

Agricultural & Biosystems Engineering – Upgrading Our Quality of Life

Time

September 16th (Tue) – 19th (Fri), 2014

Venue

China National Convention Center

Congress Languages

English, Chinese

IMPORTANT DATES

On-line registration opens:	Sep. 1 st , 2013
Abstract submission opens	Sep. 1 st , 2013
Abstract submission deadline	Apr. 1 st , 2014
Notification of abstract acceptance	Apr. 15 th , 2014
Early bird registration	May 31 st , 2014
Full paper submission	Jun. 1 st , 2014
Information to authors on website	Jul. 1 st , 2014
Hotel reservation and tour deposits	Aug. 1 st , 2014

PROGRAM AT A GLANCE

Date	Morning		Mid-noon	Afternoon		Evening
Sept.15 th	Registration					
Sept.16 th	Opening Ceremony	Plenary Sessions with Invited Speakers	Working Lunch	Plenary Sessions with Invited Speakers		Welcome Reception
Sept.17 th	Oral Session		Working Lunch	Oral Session		
	Poster Session / Exhibition			Poster Session / Exhibition		
Sept.18 th	Oral Session		Working Lunch	Oral Session	Closing Ceremony	Banquet
	Poster Session / Exhibition			Poster Session / Exhibition		
Sept.19 th	Technical Tour					

CALL FOR PAPERS

The Congress welcomes abstracts relevant to the preliminary topics. A person intending to give an oral presentation (15 - 20 minutes) or a poster at the Congress is requested to submit a one-page abstract (A4 size, approximately 500 words) to the Academic Committee no later than **April 1st, 2014**. An abstract should be well written,

clear and informative by describing the work with emphasis on objectives and factual results. An abstract should include key words related to the Congress Preliminary Topics. Notification of acceptance or rejection of abstract will be given by **Apr. 15th, 2014**. Authors are invited to prepare a full-length paper after the acceptance. Abstracts and full

papers should be submitted online using the templates provided.

Preliminary Topics

Full list of the detailed main topics will be available at www.cigr2014.org

1. Land and Water Systems Engineering
2. Machinery Engineering for Plant Production
3. Bioprocessing System Engineering
4. Information Systems and Precision Farming
5. Rural Electricity and Renewable Energy
6. Farming Buildings and Livestock Environmental Engineering
7. Management, Ergonomics and System Engineering

Oral and Poster Presentation

In the registration system, authors are asked to indicate their preference for an oral presentation or a poster on the website. The Scientific Committee will try to satisfy each author's first choice. The final decision will come along with the notification of abstract acceptance.

Proceedings

The full proceedings of the Congress will be published in CD-ROM and provided to the delegates and students at the registration desk during the Congress.

Please visit the Congress Website at www.cigr2014.org for detailed information regarding abstract guideline, submission instruction, presentation options and other related information.

Accommodation

Participants who request hotel accommodation should register on the website at www.cigr2014.org, and submit the decision and pay the registration fee. A sufficient number of rooms will be provided at hotels near the Congress Venue. If your room request is unavailable, you will be assigned a room in another hotel as close as possible to your choice.

Registration

On-line registration will open on **September 1st, 2013** at www.cigr2014.org and ways of payment will be announced on the website later.

Registration fee (in US Dollars)

Registration Type	Early Bird Registration by May 31 st , 2014	Regular Registration After Jun. 1 st , 2014	Desk Rate
Delegates except LIC & LMIC ^[1]	\$700.00 ^[2] /\$750.00	\$800.00 ^[2] /\$850.00	\$850.00 ^[2] /\$900.00
Delegates from LIC & LMIC	\$500.00	\$550.00	\$600.00
Students ^[3]	\$400.00	\$400.00	\$450.00
Accompanying person	\$300.00	\$300.00	\$350.00
One-day admission ^[4]			\$400.00
Banquet ^[5]		\$80.00	

[1] LIC and LMIC: The list of low income and low-middle income countries is from the World Bank. [2] CIGR members. [3] Students: Please attach a copy of your student identification card to your registration form. [4] One-day admissions will only be sold the same day at the registration desk. [5] Banquet: A buffet style banquet will be held at 19:00 on Sep. 18th, 2014. The fee of the banquet is not included in the registration. Participants who wish to attend the banquet should make reservation (USD80/person) together with your registration.

Additional information

Additional information on the Congress news, maps, and updates on our programs will be available through the website: www.cigr2014.org

Contact information

Address: Room B206, No. 31 Building, Chinese Academy of Agricultural Mechanization Sciences (CAAMS), No. 1 Beishatan, Deshengmen Wai, Chaoyang District, Beijing 100083, China
 Phone: 0086-10-64882358
 Fax: 0086-10-64883508
 Email: cigrwc2014@yahoo.com
 Website: www.cigr2014.org

The 4th CIGR International Conference - AgEng Conference-2016 Robotics, Environment and Food Safety 26-29 June 2016, Aarhus, Denmark

The Conference will be held at University of Aarhus 26-29 June 2016 as a joint event between CIGR (International Commission of Agricultural and Biosystems Engineering) and EurAgEng (European Society of Agricultural

Engineering) and cosponsored by NJF (Nordic Association of Agricultural Scientists) and Aarhus University.

Preparation for this event are progressing with the Organising Committee making the preliminary preparations.

Contact: Prof. Søren Pedersen
 Email: soeren.pedersen@agrsci.dk

Commemoration of Giuseppe Pellizzi (1991-1994 CIGR President)

Last August 21, Emeritus Professor Giuseppe Pellizzi died suddenly, leaving a gap in the Italian and worldwide agricultural engineering community which cannot be filled. It is difficult to commemorate in a few lines such an important figure along with the work of a scholar who, over more than fifty years, left an indelible mark on the history of agricultural mechanisation.

His contribution characterised by enthusiasm, intelligence, determination and commitment made him an important reference figure on international level; profound sorrow at his death was felt around the world.

After graduating in Engineering from the Milan Polytechnic University, he started work in 1953 as assistant professor in the Agricultural Machinery Department at the

University of Milan, passing through all stages of the academic career ladder to become a full professor in 1968; Director of the Institute of Agricultural Engineering from 1964 to 1995 he was awarded the title of emeritus professor in 1999.

He had innumerable scientific and research interests, ranging from theoretical and experimental studies on tractors and processing machinery through to the definition of models for the rationalisation of mechanisation and optimisation of work organisation.

Again, as a result of his sensitivity to more current requirements and the evolution of the world situation, following the first energy crisis in 1973 he was the first to understand the importance of a new approach to energy supply in agriculture, promoting and developing greater attention of the agricultural engineering world to the study of renewable energy sources.

As a convinced supporter of the notion that advanced research could not shrink back from a rigorous exchange of ideas, he always dedicated particular attention to internationalisation and to exchanges at the most qualified world research centres, and from 1991 until 1994 he was the President of the International Commission of Agricultural Engineering (CIGR), which appointed him as its Honorary President as recognition of the particularly effective nature of his mandate.



Emeritus Professor
Giuseppe Pellizzi

In 1989, acting together with Federunacoma, he founded the Bologna Club, a prestigious association which brings together the leading world experts in agricultural

mechanisation with the purpose of promoting a harmonious development of the sector in various countries.

Pellizzi was a member and in leadership roles of major national and international scientific societies and academies including the Council of the prestigious Italian Accademia dei Georgofili, president and honorary president of the Club of Bologna, President, Honorary President and Fellow of the CIGR, president and honorary president of the CIOSTA, president and honorary president of the Italian Society of Agricultural Engineering, President of the Italian CONAMA, Co-Founder and Life Member of EurAgEng.

He was a senior adviser to the Italian ministries, FAO, UNIDO, the EC, the CONAMA, the National Research Council CNR and other organizations. The long list of other activities is not enough space.

With the mixture of profound overview knowledge, imagination, visionary work proposals, a winning organizational skills, impressive full assertiveness and sociability he achieved outstanding results that have been recognized by senior honors. The most important are singled out:

Gold Medal of the Italian Minister of Science, 1978, Marchi Foundation Award 1981, Philip Morris International Award 1990, France Chevalier du Merite Agricole in 1992, Dr. h. c. University Godollo 1993, ASAE - Kishida International Award 1997, CIGR-UNACOMA International Award 1998, Dr. h. c. the University of Ancona in 1998, DLG International Award 1999, Academy of Georgofili International Award 2003.

With Giuseppe Pellizzi the international agricultural engineer's family loses one of its most prominent leaders and father of her best-known school.

In addition to his academic achievements and his always goal-oriented leadership style we appreciated his generosity, his collegial trust, his humor and sensitive humanity - as in almost fatherly outreach to less experienced colleagues.

A brilliant and charismatic teacher, and the author of the principal national textbooks on agricultural machinery, he taught generations of students who continue to recall with pleasure the educational value of his lessons.

A distinguished teacher, he led the training and scientific growth of numerous young researchers, many of whom now full professor are continuing his work in various Italian universities, always remembering his teaching and profound contribution of intelligence and commitment.

GIUSEPPE PELLIZZI (Prof. Dr. Eng.; Dr. h.c.) Curriculum Vitae

Born on 7. 9. 1928 in Reggio Emilia (Italy); Engineer at the Polytechnical University of Milano on 1953, married in 1955; 4 children.

Academic activity

Assistant Professor of Agricultural Machinery in the University of Milano from December 1954

Ph. D. in Agricultural Machinery in 1958

Associate Professor at the Polytechnical University of Milano from 1961 up to 1982

Full professor at the University of Milano (Agricultural Faculty) from 1968 to 1997

Retired in 1997; Professor Emeritus of the University of Milano from 1999

Director of the Institute of Agricultural Engineering of the University of Milano from 1964 to 1995

2. NEWS FROM SECTIONS AND WORKING GROUPS

CIGR Section III Report

Section III (Equipment Engineering for Plant Production) met on July 8th in Valencia. Attendees included members from Brazil, Canada, Chile, Germany, Japan, Malaysia, Spain, and the United States. The attendees discussed

current and future interests and activities and potential means of cooperation.

There were 127 oral presentations or posters at the CIGR/EurAgEng conference in Valencia in the areas of Section III. In addition, there were 44 in the simultaneous

ATOE (Automation Technology for Off-road Equipment) conference sponsored by Section III.

Various issues with the CIGR Journal were discussed. Editors and reviewers are needed for the journal. Persons who are interested in these roles should contact section chair John Schueller. Nominations of others who would be good in these roles should also be forwarded to him.

The section formally accepted ownership of the ATOE (Automation Technology for Off-road Equipment) conference which is held every two years, including this year in Valencia. Qin Zhang will chair the committee to determine the details of the next conference, including the venue.

Over 33,000 digital slides and other items related to agricultural engineering are available in German and English in a media collection at

<http://mediatum.ub.tum.de/?id=11274>. More details are available from CIGR Fellow Hermann Auernhammer.

The section discussed its mission, objectives, scope, and activities, including potential areas that are currently underserved. Topics included the integration of electronics in machinery, machinery for rice production, greenhouse equipment, and machinery for animal production. The section leadership will discuss with Section II (Farm Buildings, Equipment, Structures and Environment) to avoid overlap and gaps in the latter areas.

The section will meet at the CIGR Congress in Beijing in September 2014. The location of the 2013 meeting will be determined at a later date.

*Prof. John K. Schueller
Chair of CIGR Section III*

CIGR Section IV

“Bioenergy And Other Renewable Energy Technologies And Systems”

34 International Symposium of the Section IV of CIGR Krakow, September 16- 18, 2013, Krakow, Poland

The conference will cover the following problems:

- Bioenergy and climate change (environment, emission control),
- Biomass processing (drying, compaction, agglomeration, torrefaction)
- Thermal conversion of biomass (forestry, agriculture waste) as combustion, co-combustion, pyrolysis, gasification,
- Biofuels and biogas technologies,
- Techniques and energy efficiency in renewable technologies: solar thermal and photovoltaic systems, wind power, Combined Heat Power (CHP) systems, heat storage systems,
- Bioenergy in a sustainable society (environment, emission control, ash recycling),
- Bioenergy market and economic aspects of use of the renewable sources.

More information will be available at (from October 2012): www.cigr2013.wipie.ur.krakow.pl

*Prof. Janusz Piechocki
Chair of CIGR Section IV*

CIGR Section V: “System Management”

Mission, Objectives, Scope and Activities

Mission

The mission of Section V is to optimize farm management and work organization by use of operations planning, logistics and system engineering, while improving the operations efficiency, economics, health, ergonomics, and workers' safety.

Objectives

The mission of Section V is achieved and fulfilled by a number of objectives. These include:

- Enhancing and improving the knowledge on farm management, specifically operations management
- Developing and improving decision support systems for operations planning, logistical challenges, operations and quality optimization, and economics. Logistics include the flow of materials, services and related information through the supply chain.
- Enhancing the knowledge on technology and sustainability assessments of operations methods in agriculture
- Improve the knowledge and methods for analyzing the interaction of work methods with biological system (soil, crop, etc.) and the meteorological system (weather data, weather forecasts, etc.)
- Improve the knowledge on ergonomics as an integrated part of operations management in bio-production
- Enhancing the evaluation of accident risks associated with agricultural operations

Scope and R&D activities of Section V

- **System Management:** Related to the information technology and decision support systems used to improve productivity and product quality as well as cost reduction, including the reduction of the impact of agricultural production on the environment
- **Work organization:** Related to the investigation of work methods and labour operation time with combines, tractors and other equipment, including the effect of weather conditions on daily planning
- **Ergonomics:** Related to the workload and safety of farmers' use of combines, tractors and other technical equipment, including the compatibility of signs and manuals in the actual workplace
- **Risk analysis:** Related to accident prevention in all agricultural operations that impose varying levels of physical and mental stress
- Section V works in collaboration with the 'Commission Internationale de l'Organisation Scientifique du Travail en Agriculture' (CIOSTA) with a focus on agricultural production systems, yield and quality automation, labour economics and ergonomics and safety

The themes of Section V help to meet the increasing demand for both food and non-food agricultural products and related supply-chains. In order to increase competition, one challenging domain is that of increasing energy efficiency and higher operations productivity in agriculture. On the one hand (especially in technologically advanced countries or regions), information technology will improve efficiency in various ways: labour saving, labour easing, fuel saving and input saving in site-specific applications; the processes will

hence be made more environmental friendly. On the other hand (especially in developing regions and for labour-intensive crops), reducing the workload without producing labour saving would result in higher rural unemployment. In this setting, expert knowledge, management skills and IT-based management support systems become critical success criterias.

One challenging theme that will play a key role in agriculture and in the food production in the future is agro-food supply chain. Important management challenges include the supply chain management and logistics involving the planning, implementation and control of the efficient and effective flow and storage of goods, services and related information from the point of origin to the point of consumption in order to meet the requirements of customers. Important issues include traceability and food safety, optimized harvesting and transportation chains, manure and waste management, handling of IP products (non-GM vs. GM), and E-commerce in bio-production

Section V closely collaborates with the 'Commission Internationale de l'Organisation Scientifique du Travail en Agriculture' (CIOSTA). CIOSTA was founded in 1950 as a non-profit, professional organization to promote agricultural economy with a focus on agricultural production systems, yield and quality automation, labour economics and ergonomics and safety. Section V and CIOSTA organize a biennial international conference. The next conference will be held from 29 June - 1 July 2011 in Vienna, Austria and embracing the topics of "Efficient and safe production processes in sustainable agriculture and forestry"

*Prof. Dr. Claus Grøn Sørensen
Chair of CIGR Section V*

Announcement from the Chair of Section V

The technical board of Section V (System Management) held its annual board meeting in Valencia Sunday 12th of July during the CIGR-AgEng 2012 conference. The last board meeting was held in Vienna at the CIOSTA-Conference 2011. This conference was well visited conference with around 200 participants. The papers from the conference were modified by R. Berruto to be

included in the CIGR proceedings database. In the future, it will be necessary to initiate the transfer of papers during the submission process. The proceedings database should be extended by the papers from a number of conferences, like the one in Valenica. Currently, uploading of papers is voluntary. It is the recommendation of CIGR Section V that we would like to see that CIGR sponsored conferences should add there papers to the proceedings database.

CIGR V is sponsoring the conference "Safety, Health, Welfare in Agriculture, Agro - Food and Forestry Systems, 3- 6 September 2012" in Ragusa, Italy.

For the CIGR Journal, co-section editor Ing. Roberto Deboli was appointed by R. Berruto as an expert in ergonomics. The way of having multiple section related editors has been recommended by the board of section chairs. The problem for the CIGR Journal is that scientists from industrialized countries want a journal with an impact factor, and that is why it is imperative that the CIGR Journal develop towards an ISI-approved journal.

During the CIGR-AgEng 2012 conference a kick-off meeting involving the CIGR Logistics Working Group was held. There were invited some people from other sections. The idea is to invite people from other sections to participate in the working group as well as having logistic related topics included in the CIOSTA conference. The EFITA-conference next will also be an opportunity in present topics related to the themes of the working group.

The CIOSTA XXXV conference will be held in Denmark from 3rd to 5th July 2013. The planning of the conference is currently underway and a preliminary leaflet is ready for handout and a homepage is established as the platform for disseminating information about the conference.

The EFITA-Conference to be held in Turin from 24th to 27th June 2013 will include special sessions of ICT for logistics and operation management, since it is organized R. Berruto. EFITA will be sponsored by CIGR Section VII as well. The website is not ready yet.

The location for the CIOSTA conference 2015 will be St. Petersburg. Russian colleagues have confirmed their willingness to organise it in 2015. They visited Vienna in May 2012 and were handed over information about previous CIOSTA conference like participants list, etc.

*Prof. Dr. Claus Grøn Sørensen
Chair of CIGR Section V*

3. PUBLICATIONS

Agricultural Engineering International The CIGR Journal

Prof. Lanfang Zhang, Editor-in-Chief
ISSN 1682-1130

**Submit manuscripts for peer review to
www.CIGRjournal.org**

Since the implementation of Open Journal System (OJS) by the CIGR Journal, the numbers of manuscript submissions and registered users continue to increase. The table below shows the statistics for the CIGR Journal from January 1st to June 30th, 2012 after using OJS. While we are gratified with

the increasing number of submissions, our primary goal remains constantly improving the quality of published papers. Authors, reviewers and Section Editors are the key to higher quality.



Prof. Lanfang Zhang

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

From January 1st to June 30th of

the year 2012, 115 manuscripts have been submitted, which is greater than 41 from October to December 2011. The average time to conduct a review and publish a manuscript is more than 50 days. We are pleased to see only a few submissions (11%, significantly lower than 58% in the last season) were in the queue awaiting review assignment by Section Editors. This is due to the improved work effort and quality from Section Editors, reviewers and their better collaboration with the Editor-in-Chief. However, there are still delays in the review process, which may be due to a number of reasons, such as heavy workload of the limited number of Section Editors, inefficiency of the OJS systems, etc. We will continue our endeavor of maintaining the manuscript statistics and prompt communications with Section Editors to speed up the review process.

By the end of July, 2012, the total number of registered users in CIGR Journal through OJS reached 7890 with 325 new users. Registered readers were 7238 with 221 new. Compared with the number of registered users at the end of 2011, there was an increase in the past seven months; however, only 1314 were registered as reviewers in the journal database. Also, owing to the incomplete registration information, particularly without clearly indicating the area of specialization, it is hard for the Section Editors to select proper reviewers according to their expertise. The CIGR Journal warmly welcomes the participation of its members as well as the scientists and engineers engaged in agricultural and biosystems engineering worldwide and we greatly appreciate your support. If you have not registered in the CIGR Journal, please do so by going to the website and registering as an author and reviewer.

Moreover, right now there are 167 manuscripts submitted to CIGR Journal, with 27 papers accepted and in editing, the rest are still in process--under review or revision. Thank you.

Prof. Lanfang Zhang
Editor-in-Chief of CIGR Journal

2012 Statistics for the CIGR Journal (January 1st –June 30th)

Issues (Vol.13, No.4, 2011, Vol.14, No.1, No.2, No.3, 2012)	Published 3 (No.4, No.1, No.2; No 3 in publishing)
Items (Research papers)	Published 8 in No.4, 2011, 20 in No.1, and 20 in No.2
Total new submissions	115
Peer reviewed	9 (8%)
Held by Section Editors	13 (11%)
In review with some review comments	13 (11%)
In review without review comments	7 (6%)
Accepted as new submissions	34 (30%)
Declined as new submissions	39 (34%)
Resubmitted	0(0%)
Days from submission to complete review	Over 50
Days to from submission to publication	Over 80

CIGR Section Boards (for 2012)

Section I:	<i>Land and Water</i>	(Chair: Guanhua Huang [China])
Section II:	<i>Structures and Environment</i>	(Chair: Thomas Banhazi [Australia])
Section III:	<i>Plant Production</i>	(Chair: John K. Schueller [USA])
Section IV:	<i>Energy in Agriculture</i>	(Chair: Janusz Piechocki [Poland])
Section V:	<i>System Management</i>	(Chair: Claus Grøn Sørensen [Denmark])
Section VI:	<i>Bioprocesses</i>	(Chair: Linus Opara [South Africa])
Section VII:	<i>Information Technology</i>	(Chair: Seishi Ninomiya [Japan])

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

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YANMAR technology for complete snow removal.



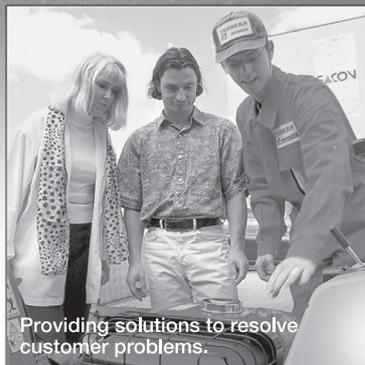
Speedy rice- transplanters.



Durable, user-friendly harvesters.



Best performance on the turf with YANMAR tractor.



Providing solutions to resolve customer problems.



Quality and maneuverability with the axle rotor tiller.



For transport power where and when you need it.



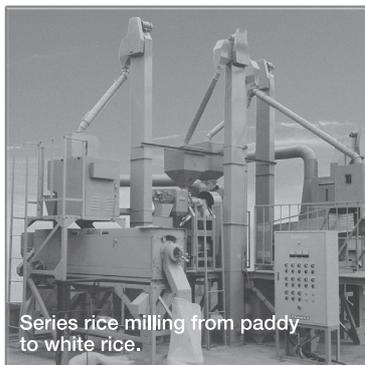
Powerful operation under heavy-duty conditions.



High precision operation with YANMAR combine harvesters.



YANMAR tractor provides efficient operation and maximum comfort.



Series rice milling from paddy to white rice.



High speed tractors with direct fuel injection.

YANMAR is dedicated to going beyond the engineering of technology, providing exceptional services and products with superior combustion, efficiency and durability. We also provide solutions to challenges faced by our customers.