



International Commission of Agricultural and Biosystems Engineering

CIGR

Newsletter Quarterly

Newsletter No. 85
March 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

President's Message

We are living in a fast-changing world, where many challenges exist in the agricultural sector with respect to providing technical solutions. It is therefore a privilege to be the president of CIGR for the period 2009–2010 and have the opportunity to participate in important decision-making within the CIGR working sphere.

The historical development of CIGR can be briefly outlined as follows. Since the foundation of CIGR in 1930, there have been dramatic improvements in the quality of technical solutions for problems in agriculture, where manual work and horse-driven implements were replaced by machines such as tractors, combines, and milking machines. Mechanization and automation in the agriculture sector has been very rapid with respect to minimization of manpower. Moreover, public expectations regarding methods of production and the end products of agriculture have changed over time.

The agricultural evolution in the developing and developed countries has been different. In developing countries like Bangladesh, the production conditions were steady until the introduction of mechanized cultivation in the 1950s. However, in the 1970s, the changes in cropping pattern and intensity created a demand for mechanized irrigation, tillage, pest management, and post-harvest processing of crops. The need for machinery for the production and post-harvest processing of crops has increased significantly in the developing worlds in recent times. However, the agricultural machinery sector has a potential to grow even faster and has the ability to contribute substantially to the employment of people. The machineries being used in the agriculture sector in the developing world are still small, less efficient, and very expensive. It is therefore a challenge to make these technologies more efficient and affordable and to develop better management systems.

Until the middle of the 20th century, the overall goal of the agricultural sector in the developed world has been to increase the production every year. This has been achieved by methods such as optimization of the use of irrigation, fertilizers, and pesticides and increasing of the area of arable land. In the 1960s and 1970s, there was an increasing concern about the impact of agricultural production on the environment and animal welfare, and the term 'Sustainable Agriculture' was introduced and began to be frequently used. It was recognized that production principles should take into account not only an increase in production but also minimization of the negative impacts on the environment and animal welfare. Therefore, several regulations were introduced in the European Union (EU), such as those limiting the animal production level [e.g. the number of pigs (animal units) per unit of arable land and pen space required per pig], with a view to controlling environmental pollution and improving animal welfare. Increased pressure from



Prof. Søren Pedersen

consumers to provide agricultural products grown without the use of artificial fertilizers, pesticides, and imported feed protein has resulted in an increasing interest in products obtained from organic farming. However, worldwide concern about having sufficient food supply has maintained the focus on high levels of animal production with optimal use of natural resources. At the same time, an increasing part of the arable land is being used for purposes other than food production as e.g. crops for energy production and hence reduced the land available for food production for humans.

Surplus production of animal products in some regions of the world, like the EU, led in 1988 to regulation of the use of arable land on a freely basis to limit the use of fertilizers and pesticides. From 1992, the EU regulations demanded that 15% of the arable land should lie fallow and since the percentages again has been regulated down to zero.

Farmers, manufacturers, researchers, and other groups of individuals in the agricultural sector like the CIGR are forced to cope with new demands in the fast changing production situations caused by regional regulations, public opinion or new technical solutions.

One of the biggest challenges in the coming decades will be to implement the present day knowledge on robotics, especially exploring the possible benefits of the global positioning system (GPS). Although many examples of application of robotics worldwide can be cited, I wish to only mention an example from my own region. Robotics is already being widely applied in dairy cow production facilities in some countries. In the Netherlands, with 1.4 million dairy cows on a total of 20,000 farms, more than 700 herds are operated by automatic milking systems (AMSs). In Denmark, in 2008, 12% of the 0.6 million dairy cows were milked by the AMS, which is the highest percentage in the world, and AMS is still being implemented. The global interest in AMS is depending very much on the labour cost and it is a good example of how economical considerations have an impact on the implementation of new techniques. Another challenge is control of the animal production facilities where advanced technical solutions are investigated and used, as e.g. technologies for reducing environmental impact of gases, particles, and odour by employing air scrubbers, bioenergy, and recycling. Weed control is another progressing field in robotics, where the crops and weeds can be identified online by advanced sensors that can direct harrow teeth and pesticide sprayers towards single plants or areas infected by weeds. With GPS and digital infrastructure, it is possible to identify the exact location of a particular part in the field, which increases the possibilities of various applications. The application of robotics and the use of intelligent implements are new technologies that offer challenges to all 7 CIGR Sections.

There will be new challenges in the future that cannot be predicted at present and it is the good reason, why it is a big challenge for me to work for CIGR

*Prof. Søren Pedersen
President of CIGR*

CIGR World Congresses and Conferences, 2010–2014

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

The International Commission of Agricultural Engineering (www.cigr.org) will hold its XVII World Congress in Québec City, Canada, 13–17 June 2010. The Congress is hosted by the Canadian Society for Bioengineering—La Société Canadienne de génie Agroalimentaire et de Bioingénierie (CSBE/SCGAB) (www.bioeng.ca).

This year's theme is '**Sustainable Biosystems through Engineering**'. The local organizing committee is planning several exciting events that will make your stay in Quebec City a truly memorable one. Three groups have already announced that they will meet jointly with CIGR 2010: the 9th International Drainage Symposium of the American Society of Agricultural and Biological Engineers, the Annual Meeting of the American Ecological Engineering Society and the World Congress on Computers in Agriculture. As host Society, CSBE/ SCGAB will hold its 52nd Annual Conference.

Quebec is one of the oldest cities in North America; it celebrated its 400th anniversary in 2008. Eastern Canada offers excellent opportunities for technical, historical and natural science exploration. Plan to share your most recent discoveries in the areas of agricultural, food and biosystems engineering with colleagues from around the world. Mark the dates (13–17 June 2010) so you can participate in the progress and development of trends in your area of work.

General program (preliminary)

Sunday, 13 June

Board and technical section meetings
Registration
Evening welcome reception

Monday, 14 June

Congress Opening Ceremony
Technical oral and poster sessions
Evening social activity

Tuesday, 15 June

Technical oral and poster sessions
Annual business meeting of CSBE/SCGAB
Joint CIGR and CSBE/SCGAB Awards Banquet

Wednesday, 16 June

Technical oral and poster sessions
Closing ceremonies

Thursday and Friday, 17 and 18 June

Optional technical visits:
(1) Food and process engineering activities
(2) Engineering for crop and animal production
(3) James Bay hydroelectric dam

The complete program will be available in Spring 2010

Important dates:

Spring 2009: Call for paper

30 October 2009: Abstract submission

February 2010: full papers

For information contact: Dr. Philippe Savoie
Chair of the Scientific Program Committee of CIGR 2010

Agriculture and Agri-Food Canada, 2560 Hochelaga,
Boulevard, Québec, QC, Canada, G1V 2J3
philippe.savoie@agr.gc.ca

The 3rd CIGR International Conference 2012, Valencia, Spain, 8–12 July 2012

The 3rd CIGR International Conference 2012 will be held in Valencia, Spain, during 8–12 July 2012, in collaboration with the European Agricultural Engineering Society (EurAgEng) as a joint Conference, namely, CIGR-EurAgEng, on agricultural engineering. It will be hosted by the Spanish Society of Agricultural Engineering. The conference will take place at the Valencia Conference Center, which is considered to be one of the finest buildings of Valencia and is an excellent auditorium designed by the architect Lord Norman Forster.

The conference theme will be agricultural engineering for a better and healthy life, including all technologies related to the production of safe foods and environmental management. The scientific programme will include plenary sessions, parallel lectures, and poster sessions on topics that cover all the scientific activities related to agricultural engineering.

Organizing Committee:

- Chairman: Dr. Florentino JUSTE. Instituto Valenciano de Investigaciones Agrarias
- Dr. Luis VAL. Universidad Politécnica de Valencia. (Polytechnic University of Valencia)
- Dr. Enrique MOLTÓ. Instituto Valenciano de Investigaciones Agrarias
- Dr. Carlos GRACIA. Universidad Politécnica de Valencia. (Polytechnic University of Valencia)

Please visit the following webpage.

<http://www.ivia.es/AgEng2012/CIGR/Valencia.pdf>

The XVIII CIGR World Congress 2014 Beijing, China, Autumn 2014, Agricultural Engineering — Upgrading Our Life Quality

The XVIII CIGR World Congress will be held in Beijing in 2014. The preparation of the big event is going on well and includes:

1. The sponsors of the XVIII CIGR World Congress 2014: International Commission of Agricultural Engineering (CIGR), Chinese Society for Agricultural Machinery, Chinese Society of Agricultural Engineering
2. The organizers of the XVIII CIGR World Congress 2014: Chinese Academy of Agricultural Mechanization Sciences (CAAMS), Chinese Academy of Agricultural Engineering, China Agricultural University
3. The time of the XVIII CIGR World Congress 2014 will be in the autumn of 2014—the golden season in Beijing
4. The central theme of the XVIII CIGR World Congress

2014 is ‘Agricultural Engineering – Upgrading Our Life Quality’

5. The scientific programme includes plenary sessions, parallel oral and poster sessions, special sessions, exhibition and field trips.

6. The main topics will cover:

- (1) Land and Water System 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

We will distribute the first announcement of call for papers in 2010 at the XVII CIGR World Congress 2010, Quebec, Canada.

Prof. Shujun Li
Executive Board Member of CIGR

Formal logo of CIGR

The formal logo of CIGR was approved at the Presidium Meeting held on 7 January, 2009 on the Frutic Chile 2009 Conference in Concepcion, Chile as Figure 1. It was decided to approve the use of the formal CIGR logo when a symposium is being supported by CIGR, that is, for a CIGR-sponsored activity. The organizing committee of the symposium is required to fill in an application form which is



Fig. 1 CIGR formal logo with effect from 7 January, 2009

available on the CIGR web site for the formal logo and send it to the CIGR General Secretariat (GS).

Within two months of holding the symposium, the organizing committee must submit a report to GS about the details of the symposium. The GS will then issue the symposium report on a CIGR Newsletter. On the other hand, CIGR co-sponsored activities may use the conventional CIGR logos. CIGR hopes that every Section and WG will select the CIGR-sponsored activities rather than the cosponsored activities referring to the rules for operation of CIGR’s Technical Sections (CIGR Newsletter No. 84, Page

9, 2008). Moreover, CIGR recommends that these activities (the proceedings of the symposium) should be published on the CIGR web site as an achievement. Some of the papers presented in the proceedings of the symposium will be submitted to the Ejournal.

Conformance to these conditions will strengthen the academic activities at CIGR in the near future. Moreover, it would also bring us to a position from where we can obtain the IF evaluation from ISC.

CIGR Membership

The GS has received many requests related to obtaining individual CIGR membership. However, CIGR is an umbrella organization of regional, national, and other Agricultural Engineering societies as shown in figure 2.

To become a CIGR member, you must first belong to a regional, national, or other CIGR member society. The next step is becoming an international member of that society. You are then considered a member of CIGR.

CIGR has 7 regional member societies (ASABE, AAAS, EurAgEng, ALIA, SEASAE, EAAAE and AAEESE), 16 countries as national members (Australia, Brazil, Canada, China, Czech, France, Iran, Israel, Japan, Korea, Morocco, Poland, Slovakia, South Africa, Turkey and Ghana), 2 societies (Egypt and United Arab Emirates) as individual members, and 5 societies (FAO, UNIDO, AOAD, AOC and EIER) as corporate members. For details, refer to the CIGR web site (<http://www.cigr.org>). If you are not able to find any CIGR member society in the region of your choice, you are able to apply for an individual membership. When more than ten specialists in Agricultural and Biosystems Engineering exist in your country and are interested to be affiliated to CIGR, the establishment of a National Association/Society has to be promoted.

Next CIGR Meetings

The next Presidium Meeting the Executive Board Meeting and the Technical Board Meeting will take place in CIGR Section VI, 5th International Technical Symposium on Food Processing, Monitoring Technology in Bioprocesses and Food Quality Management on 31 August to 2 September 2009 at Potsdam, Germany.

(<http://www.atb-potsdam.de/CIGRPostharvest2009>)

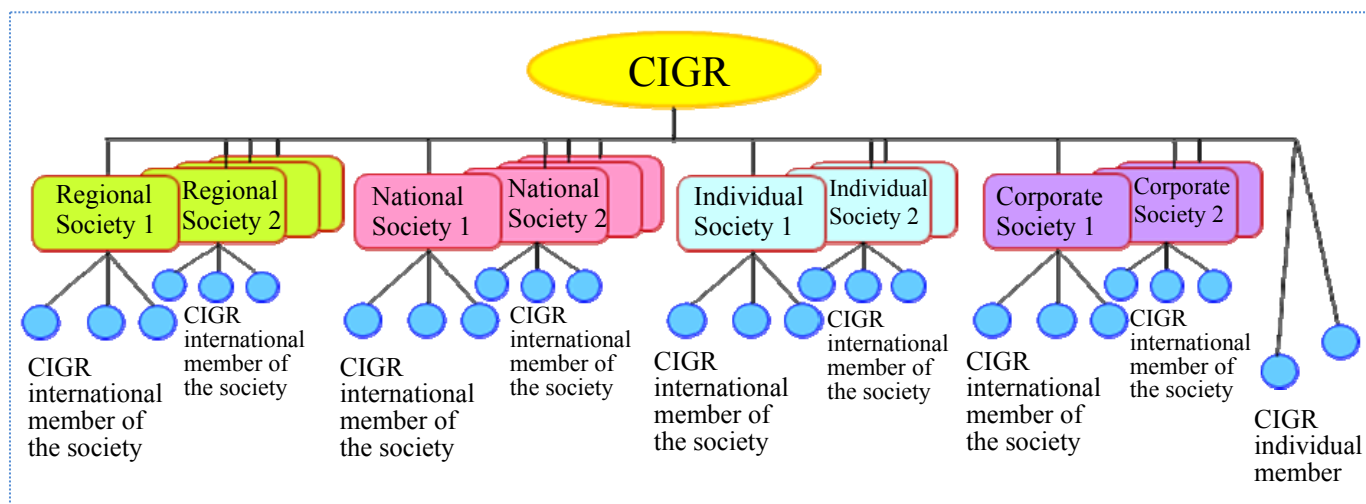


Fig. 2

2. NEWS FROM REGIONAL AND NATIONAL SOCIETIES

2009 CIGR International Symposium on 'Agricultural Technologies in a Changing Climate'

13-16 September, 2009, Brisbane, Australia
<http://www.seag2009.com>

The extended deadline for submitting abstracts will be 15 March, 2009

The 2009 CIGR International Symposium will be held in Brisbane, Australia. We would particularly like to see a more significant participation from our South-East Asian neighbours since the idea of regional collaboration cannot proceed without mutual interaction at conferences such as this one.

Topics under the theme Agricultural Technologies in a Changing Climate include the following:

- Irrigation, water and environmental management,
- Post-harvest Technologies and processing
- Structures, equipment and Environment
- Power and machinery
- Precision agriculture and livestock management,
- Plant production and handling as well as
- Information management

Invited speakers:

Prof. Dr. Ir. Daniel Berckmans

M3-BIORES: Measure, Model & Manage Bioresponses,
Katholieke Universiteit Leuven - Belgium

Prof. Jeong-Jae Lee

Department of Rural System Engineering,
College of Agriculture and Life Science

Seoul National University, Seoul, Republic of Korea

Prof. Jeff Smithers

Head School of Bioresources Engineering and Environmental
Hydrology

University of KwaZulu Natal, Scottsville, South Africa

This will be a symposium of a high standard that will encourage the participation of numerous national and international delegates for establishing a collaboration between them and facilitating the exchange of ideas on agricultural technology.

Chairperson, Organising Committee:

Erik Schmidt, Director, National Centre for Engineering in
Agriculture, University of Southern Queensland
E-mail: Erik.Schmidt@usq.edu.au

Chairperson, Scientific Committee:

Dr. Thomas Banhazi, Senior Research Scientist, South
Australian Research and Development Institute, LSA
Roseworthy Campus, University of Adelaide
E-mail: Banhazi.Thomas@saugov.sa.gov.au

Event Manager, Symposium Secretariat: Suellen Holland,
Executive Manager, ICMS Australasia
E-mail: seag2009@icmsaust.com.au

Important days:

Submission of abstracts: 15 March 2009

Student Deadline paper submission: 1 May 2009

Feedback review scientific committee: 15 June 2009

Final paper submission: 15 July 2009

2009 CSBE/SCGAB Annual General Meeting and Technical Conference

12-15 July, 2009, Prince Edward Island, Canada

The 2009 CSBE/SCGAB annual meeting will be held in Rodd Brudenell River Resort on Prince Edward Island between 12 July and 15 July beginning with a Sunday (July 12, 2009) evening reception.

The theme of the conference is "CSBE/SCGAB – Energizing Agriculture". The meeting will provide a forum for agricultural, bioresource, biosystems, bioprocess, energy production on farms, environmental, and ecological related professionals to exchange information on science applications, and developments of technologies related to the above areas but other session topics could be suggested to the program committee. Presentations will be conducted in several sections, poster sessions, and technical tours.

Important deadlines

31 Mar., 2009: Notification of the acceptance of abstracts

12 May, 2009: early bird registration

20 Jun., 2009: Registration deadline

12-15 July, 2009: Annual Meeting in PEI

This coming event will soon be accessible from our revamped website. For further information, please contact:

Dr. Stefan Cenkowski, VP Technical,

E-mail: Stefan_Cenkowski@umanitoba.ca

ASABE Annual International Meeting 21-24 June, 2009, Reno, Nevada, USA

The 2009 Annual International Meeting will be held at the Grand Sierra Resort and Casino in Reno, Nevada.

Important Dates:

30 March, 2009 - Deadline for corrections to presentation titles or authors/presenters

28 April, 2009 - Early Bird Discount Registration Deadline

28 April, 2009 - Presenter/Author Registration Deadline

All presenters are required to be registered for the meeting. Paper numbers will be issued upon receipt of registration.

28 April, 2009 - Full papers due to ASABE Headquarters

TBA 2009 - Committee Schedule Available

21-24 June, 2009 - Annual International Meeting

International Conference on Agricultural Engineering 'Towards Environmental Technologies' AgEng 2010 CF

6-8 September, 2010, Clermont-Ferrand,
France

<http://www.ageng2010.org/>

AgEng2010 CF will be preceded by two technical symposiums organized in parallel on 3 and 4 September, 2010:

- Symposium ECOTECHS: Ecodesign and Development of Methodologies for Eco-assessment and Eco-innovation of Spreading Equipment,

- Symposium Robotics and Agriculture/Environment.

Both symposiums will take place at Cemagref technology platforms dedicated to spreading and off-road mobile robotics.

On behalf of the European Society of Agricultural Engineers, EurAgEng, of the French Society of Engineers and Technicians in Mechanization and Agricultural Engineering, SitmAFGR, and of the French Association for Water resource, Irrigation and Drainage, AFEID, Cemagref welcomes you to the International Conference on Agricultural Engineering AgEng2010 CF that will be held in Clermont-Ferrand, France, on 6-8 September, 2010.

AgEng2010 CF will meet exciting challenges dealing with climatic change mitigation and adaptation, health and environment issues, or food, energy and natural resource shortage. These challenges cross social issues such as demographic trends and economic issues related to

globalization. They are expressed throughout spatial entities called territories. Agricultural engineering technologies are part of the solution. Their sound design is the core of AgEng2010 CF Conference. AgEng2010 is supporting the European Union strategies of Lisbon (economy of knowledge) and Göteborg (sustainability), and is in accordance with the European Territorial Agenda. It is an opportunity to share ideas, discuss results, and be pro-active for developing environmental friendly technologies for agriculture, aquaculture, and forestry, in the perspective of rural development. AgEng2010 CF is backed by a French community of Agricultural Engineering stakeholders involved in academics, industry, and public policies.

Important days :

- 1 October, 2009: Submission of abstracts on-line via AgEng2010 CF website
- 15 December, 2009: Notification of acceptance
- 15 March , 2010: Submission of full papers
- 20 May, 2010: Final programme

3. NEWS FROM SECTIONS AND WORKING GROUPS

Technical Session on ‘Emissions from naturally ventilated buildings’ at the CIGR Congress in 2010

In the CIGR Congress to be held in Quebec from 13–17 June 2010, a technical session titled ‘Emission from naturally ventilated buildings (measurement, modelling, reduction, and assessment)’ will be conducted by CIGR Section II (ref. CIGR Newsletter No. 83, p. 11–12).

The environmental impact of gas, odour, and aerosol emissions from livestock buildings has been identified as important issues in the last few decades. A considerable amount of effort has been invested in understanding and solving these problems. Despite this, agricultural engineers and scientists still face the challenge of solving problems associated with emissions from naturally ventilated buildings.

The planned technical session aims at bringing together engineers and scientists in this field to discuss the latest achievements and to identify research opportunities. This session on the emissions from naturally ventilated buildings (e.g. animal houses, greenhouses, storage houses, manure storages etc.) will focus on the following topics.

1. Field measurements, model experiments, and computer simulation
2. Methods to quantify concentrations, ventilation rates, and emissions
3. Methods to control ventilation rates and air flow in naturally ventilated buildings in order to control emissions, inside climate, and energy use
4. Methods to reduce gas, aerosol, and odour emissions
5. Assessment of aerosol, gas, and odour emissions

We would like to encourage all experts in this field to participate in this session. You are welcome to contribute to this session, either by participating in discussions, giving presentations of your work, and/or joining the planning group in charge of this technical session.

Call for proceedings will be announced in spring 2009.

Contact person in charge of the planning group:

Hisamitsu Takai

Hisamitsu Takai

Aarhus Universitet / University Of Aarhus

Det Jordbrugsvidenskabelige Fakultet / Faculty of

Agricultural Sciences

E-mail: Hisamitsu.Takai@agrsci.dk

MOSA

(Mission, Objectives, Scope, Activities) of CIGR Section II ‘Farm Buildings, Equipment, Structures and Environment’

Mission/Scope:

CIGR Section II is a platform to disseminate information on the developments in agriculture worldwide, and a task force that deals with issues related to ‘Engineering for Structures and Environment’. It provides information and also organises, coordinates and co-organises activities such as working groups, conferences etc., with a strong emphasis on encouraging the involvement of young scientists. Section II acts as an umbrella organisation for all national committees and sets an international calendar for conferences, workshops etc.



Prof. Daniel Berckmans

Objectives:

1. To motivate more young researchers from different countries to attend its meetings

Subtasks:

- To obtain from delegates of all countries a list of CIGR-members in their country who should receive the

CIGR Newsletter by email

- To invite all interested people to our board meetings as special guests
 - To send the minutes of Section's board meeting to all board members and special guests
2. To publish all reports on the CIGR website

Subtasks:

- To check whether it is possible to register individuals as 'interested in receiving the newsletter' on the CIGR website
 - To provide a list of all reports of Section II
 - To publish the glossary with definitions produced by the 'Hot Climate Working Group' on the website
3. To improve and intensify cooperation with different groups

Subtasks:

- To improve and intensify cooperation with the EurAgEng working group of Air Emission
- Start cooperation with the International Society for Horticultural Science (ISHS; <http://www.ishs.org/>) as decided in the meetings
- To intensify relations between PLF and aquaculture

Activities:

Next Section II Board meetings:

- 7, 8, 9 July 2009: ECPLF conference in Wageningen (<http://www.jiac2009.nl/>), - 13-17 June 2010: CIGR Conference in Quebec, (<http://www.bioeng.ca/cigr2010/>)

Working group meetings:

- Next workshop of the CIGR Section II Working Group "Animal Housing in Hot Climates"; will be organised by Prof. Baoming Li in Beijing

Upcoming Conferences (supported by CIGR):

- BTU (<http://www.atb-potsdam.de/btu%2D2009/>); 21-23 September 2009, Berlin, Germany
- 60th EAAP Annual Meeting: August 24-27, 2009, Barcelona, Spain (<http://www.eaap2009.com/>)
- XIV ISAH Congress 2009: July 19-23 2009, Vechta, Germany (<http://www.isah2009.info/>)
- ICAR General Assembly and Management Workshop on: "Management of new recording and evaluation technologies", Porec, Croatia, 11-14 May 2009 (<http://www.icar.org/pages/meetings.htm>)
- The 2009 CIGR International Symposium of the Australian Society for Engineering in Agriculture: September 13-16 2009, Brisbane, Australia (<http://www.seag2009.com/?contact>)

Daniel Berckmans (Chairperson of CIGR Section II)
Thomas Banhazi (Vice Chairperson of CIGR Section II)
Eberhard Hartung (Secretary of CIGR Section II)

CIGR Section VII 'Information Systems'

First of all, I thank those who suggested and/or welcomed me as the Chairperson of Section VII. I shall do my best for the benefit of CIGR, and for that, I count on your collaboration.



Prof. Antonio Saraiva

Although we have not discussed MOSA fully within Section VII, I am displaying a description of some points of what is currently being considered. I am sure that we will have a complete version of the description for the next newsletter. (Prof. Antonio Mauro Saraiva is the Chairperson of Section VII from 1 November 2008.)

Mission Statement:

The mission of Section VII was reviewed and approved at the Iguassu Falls meeting of the Section. It is 'to advance the use of information and communication systems in agriculture'.

Activities:

The objectives, scope and activities are being reviewed by the board. Some of the draft activities currently proposed include the following:

On-line CIT workshop. The Section will make further developments in the organisation of an entirely online workshop/symposium. The intent is to make available the expertise related to ICT to a wider audience through the use of web-based technologies as well as to develop a working model for this kind of online events that can regularly be used by CIGR.

Session at CIGR International Meetings. The Section will organize one or more sessions related to current developments and non-traditional uses of ICT in agriculture on CIGR meetings.

Collaboration with Other Societies. The Section will collaborate with other societies; for example, such collaborations have been established for the organization and promotion of scientific events such as the World Congresses in Computers in Agriculture, WCCA, with INFITA, to be held in USA (2009). The Section will participate in the organization of sessions at the International meeting of the American Association of Agricultural Engineers, ASABE.

Comments and suggestions on the above or any other issue concerning Section VII should be addressed to Prof. Antonio M. Saraiva at amsaraiv@usp.br.

Prof. Antonio Mauro Saraiva
Chairperson of Section VII

4. CIGR CO-SPONSORED ACTIVITIES

CIGR Section I ENVIRO WATER

12th Inter Regional Conference

9 – 11 November, 2009

Marrakech - MAROC - MOROCCO

Call For Papers

Please note that there has been a change in the date and venue of the Enviro Water Conference 2009. This conference will be held in collaboration with Group EIER-ETSHER, International Institute of Water and Environment.

Topics of the seminar:

Topic 1: Managing water scarcity

Topic 2: Water quantity and quality issues

Topic 3: Social and economic issues in water management

Topic 4: Management and planning of multifunctional land and water use

Important Dates:

Deadlines Send abstracts : 30 April, 2009

Notification of acceptance: 25 May, 2009

Send Full Papers: 31 August, 2009

Conference: 9 – 11 November, 2009

Duration: 3 days including one day technical tour

Organizing Committee:

Coordinator: EIMAHRAZ Hassan

Membres: BARTALI El Houssine, BOUAM Mohamed, BOURASS Mohamed, DAOUDI Mohamed, FILALI Abdelouhab, LAITI Abdelhak, OUHSSAIN Moha, Mme ZIDI Leila, MelleMAHMOUDI Touria

Seminar languages : English and French

Simultaneous translation will be provided.

Updated information on the seminar can be found on either one of the following Web sites: www.anafid.org, www.cigr.org, www.2ie-edu.org

International Scientific Committee:

Coordinator: Dr. Bartali El Houssine

Members: Dr. Mohamed Ait Kadi (Morocco), Dr. Amadou Hama Maiga (Mali), Dr. Antonio Brasa Ramos (Spain), Mr. Taieb Benchokroun (Morocco), Dr. Daniele De Wrachien (Italy), Dr. Abdelhafid Debbarh (Morocco), Dr. Enque Playan (Spain), Dr. Gerrit-Jan Carsjens (Netherlands), Dr. Guanhua Huang (China), Dr. Guido D'Urso (Italy), Dr. Heinz Sourell Gerlany, Dr. Jarbas Honorio de Miranda (Brazil), Dr. Jose M Gonçalves (Portugal), Dr. José M. Tarjuelo (Spain), Dr. Luis Santos Pereira (Portugal), Dr. Marcos Vinícius Folegatti (Brazil), Dr. Mario Falciai (Italy), Dr. Pat D. Taylor (USA), Dr. Eric Servat (France), Dr. Samuel Ortega-Farías (Chile), Dr. Hamma Yacouba (Niger)

CIGR Section IV

SYNERGY & Technical Development

International Conferences in

Agricultural Engineering

30 August to 3 September, 2009

GÖDÖLLŐ, Hungary

<http://www.synergy2009.szie.hu/news.php>

Following our previous communication regarding to the International Conferences in Agricultural Engineering “*Synergy and Technical Development*”

“*Rational Use of Energy in Agriculture and Economical Use of the Renewable Sources in Connection with Environmental Protection*” which will be held in Gödöllő, 30. August - 03. September 2009 at Szent István University Faculty of Mechanical Engineering,

we would like to inform you that the conference web site is ready to provide **online registration and abstract submission** to participants.

For detailed information about this conference (topics, committees, venue, registration) **please visit the conference website:** <http://synergy2009.szie.hu>.

The CIGR Hungarian National Committee, the Hungarian Electrotechnical Association, the Mechanical Engineering Faculty of the Szent István University and Agricultural Engineering Board of the Hungarian Academy of Sciences

are delighted to invite you to a joint conference organized around an important and actual question of our century: “Synergy and Technical Development”

Important Dates

Deadline for abstract submission: 30 April, 2009.

Final Registration: 30 June, 2009.

Deadline for full text submission: 15 July, 2009.

Opening of the Conference: 30 August, 2009.

Optional two days tour: 4-5 of September, 2009.

Local Organizing Committee

President: István SZABÓ, dean

Members: Zoltán BÁRTFAI, Dezső FAUST, Titusz FEKETE, Zoltán GERGELY, Gábor GÉCZI, Gábor KALÁCSKA, Károly HENTZ, Péter KORZENSZKY, Attila LAJOS, László MAGÓ, Sándor MOLNÁR, Károly PETRÓCZKI, Zoltán SIBALSZKY, Ferenc SOMOGYI, Márta SZABÓ, László TÓTH.

For more information

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E-mail: synergy2009@gek.szie.hu

CIGR Section V

International Symposium

Technology and Management to Increase the Efficiency in Sustainable Agricultural Systems

1 to 4 September 2009, Rosario, Argentina

<http://www.cigr2009argentina.org/>

The preliminary registration is now open for the ‘CIGR V Symposium—Technology and Management to Increase the Efficiency in Sustainable Agricultural Systems’ to be held from 1st to 4th September 2009, at the Convention Centre of Rosario, Argentina. (Deadline: 31 March 2009).

On the preliminary registration page you will also find the formatting instructions for the abstract (template and sample). Your preliminary registration and/or abstract submission does not involve any payment. These items help us to organise the symposium program.

Important Dates:

31 March, 2009 – abstract and preliminary registration

24 April, 2009 – Notification of acceptance

15 June, 2009 – Deadline for full papers

15 July, 2009 – Presenter/Author Registration Deadline.

1 to 4 September – CIGR Session V and CADIR Symposiums

The organizing committee:

Pietro Piccarolo (University of Torino) - President

The scientific committee:

Roberto Balbuena (Argentina), Ricardo Bartosik (Argentina), Remigio Berruto (Italy), G. Botta (Argentina), Miguel De Cervantes Villamuelas (Spain), Jurgen Frisch (Germany), Daan Goense (The Netherlands), Hisashi Horio (Japan), Daniel Jorajuria (Argentina), Tadeusz Juliszewski (Poland), Tarmo Luoma (Finland), Dirk Maier (USA), Ladislav Nozdrovicky (Slovakia), Elisabeth Quendler (Austria), Soren Pedersen (Denmark), Pietro Piccarolo (Italy), Joaquin Rodríguez (Argentina), Matthias Schick (Switzerland), Gajendra Singh (Thailand), Klaus Sorensen (Denmark)

More information: e-mail: info@cigr2009argentina.org

CIGR Section VI**5th International Technical Symposium
on Food Processing,
Monitoring Technology in Bioprocesses
and Food Quality Management****31 August to 2 September, 2009****Potsdam, Germany****www.atb-potsdam.de/CIGRPostharvest2009**

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

In order to fulfil better its missions, the CIGR Section VI is organizing the 5th International Technical Symposium on Food Processing, Monitoring Technology in Bioprocesses and Food Quality Management in Potsdam, Germany in 2009.

Organized by Leibniz Institute for Agricultural Engineering Potsdam-Bornim (ATB), Department for Horticultural Engineering and CIGR Section VI

Symposium Chairman: Prof. Da-Wen Sun, Honorary Vice-President of CIGR; Editor-in-Chief of Food and Bioprocess Technology – An International Journal, National Univ. of Ireland, Dublin (Ireland)

Vice-Chairmen: Dr. Manuela Zude, ATB (Germany), Dr. Oliver Schlüter, ATB (Germany)

Scientific Committee: Prof. Francisco Artes Calero (Spain), Dr. Laszlo Baranyai (Hungary), Prof. Mohammed Farid (New Zealand), Prof. Jozef Grochowicz (Poland), Prof. Yong He (China), Dr. Arzhang Javadi (Iran), Prof. Digvir S. Jayas (Canada), Prof. Pavel Kadlec (Czech), Prof. Cesar Kapseu (Cameroon), Prof. Alain LeBail (France), Prof. Shujun Li (China), Prof. Ying Ma (China), Prof. Brian McKenna, interim President of EFFoST (Ireland), Dr. Paolo Menesatti (Italy), Dr. Linus U. Opara (Sultanate of Oman), Dr. Zhongli Pan (USA), Dr. Amauri Rosenthal (Brazil), Prof. Margarita Ruiz Altisent (Spain), Prof. Vilas M. Salokhe (Thailand), Prof. George D. Saravacos, President of IAEF (Greece), Dr. Oliver Schlüter (Germany), Professor Da-Wen Sun (Ireland), Prof. Kiyohiko Toyoda (Japan), Dr. Manuela Zude (Germany)

Important dates:

15 April, 2009- Early bird payment

30 June, 2009- Registration due

31 August, 2009- Full paper for CD proceedings

CIGR Section VII**7th World Congress of Computers in
Agriculture and Natural Resources****22-24 June, 2009, Reno, Nevada, USA****<http://www.wcca2009.org/>**

The 7th World Congress of Computers in Agriculture and Natural Resources (WCCA) will be held in Reno, Nevada, 22 through 24 June, 2009. The congress will be held at the Grand Sierra Resort concurrently with the ASABE Annual International Meeting.

WCCA is a collaborative effort among agricultural information technology associations worldwide. This congress provides a forum for agriculture related professionals to exchange information on applications and developments in the use of Information Technologies. It covers a wide array of topics. These include new applications of well established and understood technologies to innovative and entrepreneurial applications of emerging technologies, in addition to issues related to policy and knowledge dissemination. Contributions from various countries will allow a broadened perspective for all attending.

This congress is sponsored by ASABE. Supporting institutions include AFITA, CIGR, EFITA, IAALD, and PanAFITA

Important Dates:

28 April, 2009 - Early Bird Discount Registration Deadline

28 April, 2009 - Presenter/Author Registration Deadline

28 April, 2009 - Full papers due to ASABE Headquarters

1 May, 2009 - Deadline for corrections to presentation titles or authors/presenters

6 May, 2009 - Final Program Online

22-24 June, 2009 - World Congress of Computers in Agriculture and Natural Resources

Scientific Program Committee:

Chair - Fedro Zazueta (USA)

Members - Stanley Best (Chile), Jose Boaventura Cunha (Portugal), Karel Charvat (EFITA), Ehud Gelb (Israel), Luis Gurovich (Chile), Antonio Mauro Saraiva (Brazil), Fangquan Mei (China), Seishi Ninomiya (Japan), Pisuth Painboonrat (Thailand), Federico Hann (Mexico), Gerhard Schiefer (Germany), Stavros Vougioukas (Greece), Iver Thysen (Denmark), Omar Ulloa (Costa Rica), Guy Waksman (France), Jiannong Xin (USA)

Organizing Committee: Chair - Jiannong Xin (USA)

5. OTHER ACTIVITIES**Agritech Israel 2009****The 17th International Agricultural
Exhibition****International Conference on the Global
Food Meeting the Challenge: Crisis****5-7 May, 2009, Tel- Aviv, Israel****<http://www.agritech.org.il/index.php>**

For the last couple of years, the family of nations, developed and developing countries alike, have been facing the looming hazard of the Global Food Crisis. The soaring prices of staples such as wheat, rice, corn and milk put an increasing pressure on the household's budget of the wealthy economies while for the poorer ones, it meant less available food and emerging deficiency of nutrients for many individuals among the population.

Experts in an ever increasing sound voiced their analysis as to what caused the crisis; global warming, unstable precipitation, competition over the same resources of food production with bio-energy production, skyrocketing oil prices, the stronger purchasing power of China and India that made them much bigger food importers, etc. Those experts have also been trying to provide solutions and forecasts as to how and when will mankind overcome this huge crisis.

This Conference will be a unique and unprecedented occasion in which the best minds from Israel and worldwide, decision makers as well as professionals, will join efforts to provide an ample scope of analyses based on their experience, from various points of view, as to how policy, planning, management, science and technology, extension and farming would all be recruited to create a new and even better equilibrium between supply and demand of quality food for all.

That will be presented to the participants of the conference within the venue of the renowned International "Agritech Israel" Exhibition at the Tel Aviv fairgrounds, that once again will demonstrate the ever improving agro-technologies of Israel that made the desert a blooming fruit and vegetables garden in our country, and out of this national agricultural laboratory disseminated those technologies for the benefit of farmers and food customers.

Looking forward to successful exchange of ideas,

Conference Co- Chairmen

Prof. Eli Feinerman, Dean, Faculty of Agriculture and Environmental Sciences

The Hebrew University of Jerusalem

Dr. Arie Regev

Director, Foreign relations, Ministry of Agriculture and Rural Development

For Further Information, please contact:

pzilberman@kenes.com

International Conference on Green Industry in Asia, Managing the transition to resource-efficient and low-carbon industry,

9-11 September 2009, Manila, the Philippines

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

The United Nations Industrial Development Organization (UNIDO), the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) and United Nations Environment Programme (UNEP) are jointly organizing the International Conference on Green Industry in Asia: Managing the transition to resource-efficient and low carbon industries. The Conference will also be organized in collaboration with the Asian Development Bank and will be hosted by the Government of the Philippines in Manila,

The Conference will focus on how industries in the region could effectively manage and reap the benefits of the transition to resource efficient and low carbon industry, and, in the process, sustain rapid economic growth and trade competitiveness. More specifically, it will provide a forum for sharing of information and knowledge on: policies and strategies to integrate sustainability into the industrial development process; best practices in optimizing energy, water and raw material use in the production process, i.e., cleaner production; and the development of new value and supply chains around industry-related environmental goods and services.

Contact person:

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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**

The CIGR electronic journal has now completed its tenth year of publication. It has grown from a modest beginning and is now attracting many quality manuscripts. All of the published papers are available free of charge on the Open Journal System (OJS) website---www.CIGRjournal.org Here is a summary of the number of papers published to date:

Peer reviewed original research papers (total-484):

Vol. I (1999)---- 7	Vol. II (2001)----10
Vol. III (2000)---23	Vol. IV (2002)---25
Vol. V (2003)--- 29	Vol. VI (2004)---44
Vol. VII (2005)- 53	Vol. VIII (2006)—68
Vol. IX (2007)---91 plus 16 ATOE papers	

plus 7 CIOSTA papers (total 114)

Vol. X---98 plus 14 ALNARP papers (total 112)

Peer reviewed invited overview papers (total-115):

Vol. I----- 2 Vol. II ---- 4 Vol. III-----8

Vol. IV---- 20 Vol. V ---- 24 Vol. VI-----6

Vol. VII----10 Vol. VIII—23

Vol. IX ---- 13 Vol. X-----5

As you might expect the published papers come from a broad international base:

(57countries). 102 manuscripts are currently in various stages of review using the Open Journal System (OJS).

Peer reviewed original research papers:

Australia-4, Austria-1, Bangladesh-3, Belgium-4, Botswana-3, Brazil-8, Canada-14, Cameroon-4, China-10, Czech Republic-3, Denmark-17, Egypt-3, Estonia-5, Ethiopia-5, Finland-2, France-2, Germany-25, Greece-10, India-40, Indonesia-6, Ireland-2, Iran-8, Israel-3, Italy-22, Japan-41, Kenya-5, Lebanon-2, Lithuania-3, Malaysia-2, Mexico-5, Netherlands-5, Nigeria-75, Oman-1, Pakistan-2, Poland-8, Portugal-6, Serbia-1, Slovak Republic-1, Spain-7,

Sweden-5, Tanzania-2, Thailand-15, Turkey-6, United Arab Emirates-3, United Kingdom-3, USA-36, Viet Nam-2.

Peer reviewed invited overview papers:

Australia-2, Bangladesh-4, Brazil-3, Canada-3, China-5, Denmark-2, Egypt-1, FAO-3, France-1, Germany-12, Greece-1, India-7, Indonesia-1, Israel-1, Italy-17, Japan-4, Kenya-1, Mexico-1, Morocco-1, Netherlands-3, Nigeria-14, Oman-3, Palestine-1, Poland-1, Portugal-1, Russia-1, Swaziland-2, Taiwan-1, Thailand-3, UK-3, USA-18, Yugoslavia-2, Zimbabwe-1.

I invite all of you to submit manuscripts for peer review and publication. There is no cost to publish or to access and print papers. In the future all manuscripts will be handled using OJS. The website has all the details regarding manuscript format, submission instructions, etc. If you have any questions, please send an email to Dr. Fedro Zazueta, at fsz@ufl.edu OJS Coordinator and Acting CIGR Ejournal Editor-in-Chief.

31December 2008

Dr. B.A. Stout, stout@tamu.edu

From Prof. Dr. Bill Stout

I have just resigned as Coordinator/Editor of the Ejournal,

after 10 years of unpaid voluntary service, and CIGR is seeking a qualified replacement. A younger person with knowledge of OJS is needed. If you have any questions about OJS, contact Dr. Fedro Zazueta (fsz@ufl.edu), an IT specialist who is handling the editor position until a more permanent replacement is found.

It has been very gratifying to see the Ejournal grow and mature into a significant outlet for technical publications on agricultural engineering. As you know, it operates with no cost to authors or readers.

Dr. Bill A. Stout, Ph.D., P.E.
Honorary President of CIGR

Video Tutorials on Using the EJournal Management System

Since 1 September 2008, the CIGR EJournal has been using the Open Journal Management System (OJS) to conduct much of the required work. You must register (free of cost) in order to use the CIGR OJS. It will take some time and effort on your part to perfect it; however, the end result will be well worth it. Some video tutorials are available on the CIGR Ejournal web site, which you may find useful.

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>Post-harvest 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
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Professor Dr. Emeritus Takaaki Maekawa, Secretary General

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Promoting the Mechanization of Agriculture in Developing Countries



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.

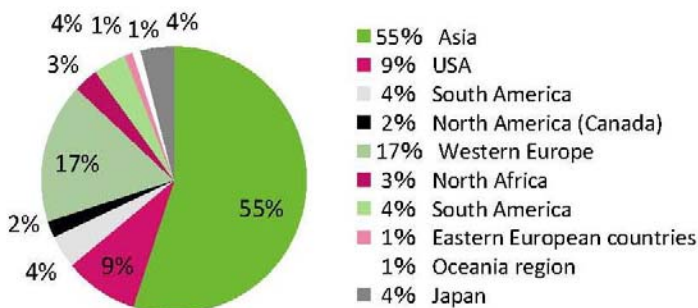
Presently, we have readers in over 120 countries, including members of government organizations, educational institutions, research and development institutions, industry, and distributors. Our journal has a particularly wide readership in developing countries that includes specialists such as policy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

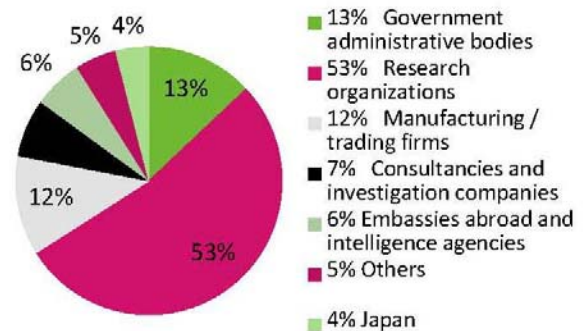


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