

International Commission of



Agricultural Engineering

# **CIGR**

**Newsletter Quarterly**

**Newsletter No.78**  
**August 2007**

*Since 1930-2007*  
*77 Years of CIGR*

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***CIGR Website: <http://www.cigr.org/>***

## 1. CIGR NEWS

### News from the President

During the last semester, I was occupied with several activities concerning the CIGR, and I would like to share some highlights with you.

In mid-April, I visited Italy and delivered a keynote speech during the Italian Congress of Poultry Science, which was organized by the Italian branch of the World Poultry Association (WPSA). On this occasion, I emphasized the overlap between Section II - CIGR and some of the projects undertaken by researchers associated with the WPSA. It also presented me with the pleasant opportunity to visit with some colleagues at the Agricultural Engineering Department of the University of Bologna.

Last May, I visited the headquarters of certain private companies, and also conferences and other events, in Brazil to seek support for the CIGR initiatives. They appeared to be interested in specific projects. In late July, I represented the CIGR at the ceremony for the centennial celebration of the American Society of Agriculture and Biological Engineers (ASABE). This International Congress was attended by several leaders from around the world. On this occasion, President Clinton addressed the congress participants about enhancing the opportunities currently available to solve problems related to world production of food and biofuel.

During the first week of August, both the Presidium and the Executive Board met at Glasgow, soon after several difficulties were posed by the terrorist attack at Glasgow airport. However, life goes on, and continuing work on new



CIGR projects was a productive endeavor.

Besides these international activities, I am personally investing time and effort to make the Rio 2008 Conference a great success.

With the passage of time, several challenges may continue to emerge both at the regional and international levels; the population grows and our understanding of our natural resources deepens. It is clear that agricultural engineering concepts must keep evolving in order to lead the way in ensuring the sustainability of the world's natural resources.

*Prof. Irenilza de Alencar Nääs  
President of CIGR*

### The Outline of CIGR Meetings in Glasgow

The meetings of CIGR, the Presidium, Joint Executive Board and Technical Board, were held on Monday, 2 July 2007, in cooperation with the European Federation for Information Technology in Agriculture (EFITA)/ World Congress on Conservation Agriculture (WCCA) 2007 Conference, which was held from 2 to 5 July 2007, at the Glasgow Caledonian University, UK. On 30 June, two days before the meeting, there was an attack on the Glasgow airport by terrorists. Despite this serious incident, there were about 200 participants from 30 countries at the EFITA/WCCA 2007 Conference on environmental and rural sustainability through information and communication technology (ICT); further, 150 presentations were given. The activities of this conference were related to Section Board VII of CIGR.

The joint meeting of the CIGR Executive Board and Technical Board (EB/TB) was attended by the members of the CIGR Presidium as well as Honorary President, Prof. Osamu Kitani (Japan); Dr. Jiannong Xin (USA); Prof. Bill

Day (UK); Prof. Nicolay Mihailov (RU); Past Secretary General, Perter Schulze Lammers (Germany); Mr. Yoshisuke Kishida (Japan); Jose Tarjuelo (Spain); Prof. Pietro Piccarolo (Italy) and Prof. Fedro Zazueta (USA).

In her position as chair of the EB/TB Committees, President Irenilza de Alencar Naas outlined the recent activities of CIGR and the preparations for the next CIGR World Conference to be held at Rio de Janeiro in Brazil, from 31 August to 4 September 2008. Former President, Louis S. Pereira, outlined the preparations of the awards ceremony to be held at the World Conference in Brazil. Regarding the CIGR handbook, President Naas proposed the revision of Vol. 1 to Vol. 5 because, except for Vol. 6, these volumes had not been updated for the



From left: Dr. Jiannong Xin; Prof. Luis S. Pereira; the President, Prof. Irenilza Naas; SG, Prof. Eme. Takaaki Maekawa; Prof. Fedro Zazueta and Prof. Soren Pedersen

past 10 years after their publication. In addition to the English CIGR *Newsletter* and the French *Bulletin de la CIGR*, the quarterly membership newsletter of the CIGR as well is now published in Arabic, Chinese, and Russian (from NL 75 and 76).

With the governing bodies of CIGR, two ad hoc committees were formed: one was formed prior to the presidium meeting for the revision of the CIGR statutes; the other, after the joint Executive Board and Technical Board meetings, for the revision of the CIGR website. With regard to the committee for the revision of the CIGR statutes, the incoming president, Prof. Soren Pedersen, is the committee chairperson, and it was he who identified the basic documents for revision. The present statutes were effective from January 2001, and the revised CIGR statutes (draft) was proposed on 1 Nov 2005. Rules for the operation of CIGR were decided by the Presidium, at the Beijing 2004 International Conference. Most of the proposed alterations in the 2005 draft were accepted, adopted, and included in the present draft, called the CIGR Statutes (draft, 2 July 2007). The internal rules of CIGR were also discussed. The committee agreed that the revision of the internal rules would require a longer period—2 or 3 years—to complete. These considerations would be addressed just before the next General Assembly to be held during the World Conference in Brazil from 31 August to 4 September 2008.

The committee for upgrading the CIGR website convened at a.m. 9:00-12:00 on 3 July, where Prof. Fedro Zazueta explained the concept and details regarding the upgrading to the committee members, including the observers. The outline concerning this was already discussed in CIGR Newsletter No. 76 as a proposed map for the CIGR website.

Honorary President Bill Stout, E-Journal Coordinator, reported on the latest developments concerning the CIGR E-Journal. As of May 2007, 279 peer-reviewed papers from

50 countries had been published. The list of editorial members will be updated. Henceforth, in most cases, the section chairs or delegates will be listed as associate editors.

The reports of the Boards of Sections I, II, V, and VII had already been published in CIGR Newsletter No. 76. The report of the Section IV Boards will be reported in CIGR Newsletter No. 78, after the meeting held in June in Poland. The main subject was the naming of Section IV including minor changes in the members.

The President stated that Prof. Da-Wen Sun as the coordinator of the working groups had done good work on the revision of the organizational framework of the working groups and their relationships with the sections.

The next TB and EB meetings will be held in August 2008 in Rio de Janeiro on the occasion of the world conference.

*Prof. Emeritus Takaaki Maekawa  
CIGR Secretary General*



Glasgow Caledonian University

## CIGR World Congresses and Conferences, 2008–2014

**CIGR International Conference on  
Agricultural Engineering,  
Rio, 2008, Brazil, 31 Aug.– 4 Sept. 2008**  
<http://www.acquacon.com.br/icae/>

The conference will be held in Rio de Janeiro, Brazil, from 31 August to 4 September 2008. The main theme of the conference is ‘Technology for all and sharing knowledge for development’.



- A1: Soils, Water & Environment Management
- A2: ILES 2008 & Concrete Conference
- A3: Processing Conference
- A4: Machinery & ATOE 2008
- A5: Interdisciplinary Themes



The following technical sessions have been planned.

### 1. Structures and Environment

Thermal, aerial and acoustic environments in animal buildings; facilities' design, structure and operation; sustainable building technology and materials; and recent trends in agricultural buildings

### 2. Bio-Systems Engineering

Biological and ecologic modelling; innovation for alternative farming; and bioconversion and bioprocessing

### 3. Foods and Feeds Processing Technology

Safety technology proprieties; process and handling systems; storage and logistics; and emerging technologies

### 4. Information Technology

Precision farming; precision livestock production; applied nanotechnology; systems design and automation; geotechnology;

### 5. Energy

Biomass and biofuels; waste management; generation in multisystem concepts; and management of energy systems

### 6. Soil and Water

Waste management; water systems—use and control;

environmental impact in agricultural production; and land and water use and its impact

### 7. Power and Machinery

Innovation in tractor and machinery use and design; management strategies for machinery use and application; development in power and machinery

### 8. Issues without Frontiers

Emissions: Measurement and control; carbon commerce management and applied technology; development and transfer of technology and cooperation network; interdisciplinary e-learning and inter-cultural information; strategies in personnel management and career opportunities

### Dates and Deadlines

**1 August 2007 to 10 February 2008:**

Submission of extended abstract

**15 March 2008:** Notification of acceptance

**15 June 2008:** Registration for authors with discounts

**15 June 2008:** Final programme

**31 August to 4 September 2008:** Conference

## Program (draft)

\* *Italic characters show the proposal by SG*

|  | Auditorium A   | Main Auditorium   | Auditorium B   | Room D  |
|--|--|---|--|---|
| <b>30<sup>th</sup> Aug.,<br/>Saturday</b>          |  |   |  | <b>9:00–12:00 (6 members)</b> <i>Ad hoc com. Revi. of statutes</i><br><b>13:00–17:00 (4 members)</b><br><i>Presidium meeting</i><br><b>18:00–21:00 (19 members)</b><br><i>Executive Board meeting</i> |
| <b>1<sup>st</sup> day<br/>31<sup>st</sup> Aug.</b> |  | 9:00–17:00: Registration<br>18:00: Official opening ceremony<br>19:00: Opening keynote speech<br>20:00: Reception           |  | <b>9:00–12:00 (11 members)</b><br><i>Technical Board meeting</i><br><b>13:00–17:00 (10 members, 7 rooms)</b><br><i>Section Board meeting</i>  |
| <b>2<sup>nd</sup> day<br/>1 Sep.<br/>Morning</b>   | 10:00–12:30:<br>Oral presentation  | 9:00–10:00:<br>General keynote speech & debate<br>10:00–12:30: Oral presentation  | 10:00–12:30:<br>Oral presentation  |   |
| <b>2<sup>nd</sup> day<br/>1 Sep.<br/>Afternoon</b> | 13:30–14:30:<br>Sectorial speech & debate<br>14:30–17:30:<br>Oral presentation<br>17:30–19:00: Poster session    | 13:30–14:30:<br>Sectorial speech & debate<br>14:30–19:00:<br>Oral presentation  | 13:30–14:30:<br>Sectorial speech & debate<br>14:30–19:00:<br>Oral presentation                                   |   |
| <b>2<sup>nd</sup> day</b>                          | 19:00: Brazilian night   |   |  |   |
| <b>3<sup>rd</sup> day<br/>2 Sep.<br/>Morning</b>   | 10:00–12:30:<br>Oral presentation  | 9:00–10:00:<br>Keynote speech & debate<br>10:00–12:30: Oral presentation  | 10:00–12:30:<br>Oral presentation  |   |
| <b>3<sup>rd</sup> day<br/>2 Sep.<br/>Afternoon</b> | 13:30–14:30:<br>Section's speech & debate<br>14:30–17:30:<br>Oral presentation<br>17:30–19:00:<br>Poster session | 13:30–14:30:<br>Section's speech & debate<br>14:30–17:30:<br>Oral presentation<br>17:30–19:00:<br>Poster session            | 13:30–14:30:<br>Section's speech & debate<br>14:30–17:30:<br>Oral presentation<br>17:30–19:00:<br>Poster session |   |
| <b>3<sup>rd</sup> day</b>                          | <b>19:30–21:30: Working group meetings (10 members, 7 rooms)</b>   |   |  |   |
| <b>4<sup>th</sup> day<br/>3 Sep.<br/>Morning</b>   | 10:00–12:30:<br>Oral presentation  | 9:00–10:00:<br>General keynote speech & debate<br>10:00–12:30: Oral presentation  | 10:00–12:30:<br>Oral presentation  |   |
| <b>4<sup>th</sup> day<br/>3 Sep.<br/>Afternoon</b> | 13:30–14:30:<br>Section's speech & debate<br>14:30–17:30:<br>Oral presentation<br>17:30–19:00: Poster session    | 13:30–14:30:<br>Section's speech & debate<br>14:30–17:30: Oral presentation<br>18:00–19:00:<br><b>CIGR General Assembly</b> | 13:30–14:30:<br>Section's speech & debate<br>14:30–17:30:<br>Oral presentation<br>17:30–19:00:<br>Poster session |   |
| <b>4<sup>th</sup> day</b>                          | <b>19:00: Farewell dinner including Award Ceremony</b>   |   |  |   |
| <b>5<sup>th</sup> day</b>                          | SBEA General Assembly, A1, A2, A3, A4, A5, Optional technical tour   |   |  |   |

## The XVII CIGR World Congress, 2010, Québec, Canada, 13–18 June 2010

<http://www.bioeng.ca/Events/CIGR/index.htm>

The International Commission of Agricultural Engineering (known as CIGR from its French name, Commission Internationale de Génie Rural) will hold its XVII World Congress in Québec City, Canada during the period 13–18 June 2010. The Canadian Society for Bioengineering—Société Canadienne de Génie Agroalimentaire et de Bioingénierie (CSBE/SCGAB)—will be the host society.

Meetings will be held at the Québec City Convention Centre, located in the heart of Québec City. The scientific programme will include sessions covering all technical sections of CIGR. Technical tours will provide opportunities to explore research farms, universities and historical sites.

The call for papers is expected in fall 2008. For regular updates on the Congress, you may consult the following website: <http://www.bioeng.ca/Events/CIGR/index.htm>

You may also contact the following persons:

### Chair of the local organizing committee

Dr. Stéphane Godbout, Ing. Agr., Institut de Recherche et de Développement en Agroenvironnement,  
[stephane.godbout@irda.qc.ca](mailto:stephane.godbout@irda.qc.ca)

### Chair of the scientific programme committee

Dr. Philippe Savoie, Ing. Agr., Agriculture and Agri-Food, Canada, [savoiep@agr.gc.ca](mailto:savoiep@agr.gc.ca)

## CIGR International Conference, 2012

Some societies had submitted applications to host the CIGR International Conference, 2012. The offers were discussed at CIGR meeting in Glasgow. The host will be decided at CIGR International Conference in Rio 2008.

## XVIII CIGR World Congress, 2014 September 2014, Beijing, China

### Sponsors

The sponsors of the CIGR 2014 World Congress will include many international and national organizations engaged in agricultural engineering. The proposed sponsors are as follows:

-The International Commission of Agricultural Engineering (CIGR)

-The Chinese Society for Agricultural Machinery (CSAM)

-The Chinese Society of Agricultural Engineering (CSAE)

### Co-sponsors

1) China Association of Agricultural Machinery Manufacturers

2) China Food and Packaging Machinery Industry Association

3) Local government offices, and local, regional and international associations, societies and institutions engaged in agricultural engineering, which will be included later.

### Organizers

Chinese Academy of Agricultural Mechanization Sciences (CAAMS)

Chinese Academy of Agricultural Engineering (CAAE)

China Agricultural University

### Topics

- Land and water engineering
- Farm buildings, equipment, structures and environment
- Equipment engineering for plant production
- Rural electricity and other energy resources
- Management, ergonomics and systems engineering
- Post-harvest technology and processing engineering
- Information systems

The detailed program will be finalized later by the respective CIGR sections.

**Time and venue:** September 2014, Beijing

Since the 2008 Olympics will be held in Beijing, more convention centers and hotels with excellent facilities for holding large-scale meetings will be available. Many more options will be available according to the scale and activities of the Congress.

## Auxillary Bodies 2007–2008

### Techtrans

**Chairman: Prof. Giuseppe Pellizzi**, Università degli Studi di Milano, Institute of Agricultural Engineering, Via Celoria 2, IT-20133 Milano, Italy

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### CIGR Books and Manuals

**Chairman: Prof. Axel Munack**, FAL, Institute for Technology and Biosystems Engineering, Bundesallee 50, D-38116 Braunschweig, Germany

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### Coordinator of CIGR'S Working Groups

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<http://cigr-ejournal.tamu.edu/>

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## 2. News from National and Regional Societies

### CIGR National Members

#### Ghana Society of Agricultural Engineering



Department of Agricultural Engineering  
Kwame Nkrumah University of Science and Technology  
Kumasi, Ghana  
Tel.: 233-51- 60242, Fax: 233-51- 60137

The Ghana Society of Agricultural Engineering was approved to be a national member of CIGR at the CIGR Glasgow Meeting. However, it requires the formal approval of the next General Assembly of the CIGR International Conference to be held in Brazil in 2008.

**Objectives of the Society**

The objectives of the society are to

1. Promote the science and art of engineering in agriculture,
2. Encourage original research,
3. Foster agricultural engineering in Ghana,
4. Advance the standards of agricultural engineering,
5. Increase and extend the association of agricultural engineers and technologists, allied scientists and technologists,
6. Encourage the collective professional improvement of its members
7. in co-operation with other groups to broaden the usefulness of agricultural engineering,

8. Secure the well-being and advancement of the agricultural engineering profession,
9. Ascertain and publish the views of the agricultural engineering profession on matters of public importance that lie within its purview.

**Main activities requiring organization:**

1. Workshops, seminars and conferences on agricultural engineering-related issues
2. Advisory services to ministries and other related agencies on agricultural engineering problems
3. Establishing relationships with other sub-regional national agricultural engineering societies under the aegis of the West African Society of Agricultural Engineering (WASAE)

**Number of members:** 95

**Structure:**

President: Ing. Daniel L. Lamptey, Ghana Irrigation  
Development Authority

1st Vice-President: Ing. Joseph K. Boamah, Agricultural  
Engineering Services Directorate, Ministry of Food and  
Agriculture

2nd Vice-President: Ing. Ato Bart-Plange, Department of  
Agricultural Engineering, KNUST

Treasurer: Ing. Ebenezer Mensah, Department of  
Agricultural Engineering, KNUST

Secretary: Ing. Dr. Ahmad Addo, Department of Agricultural  
Engineering, KNUST

Propaganda Secretary: Ing. Dr. Aliu A. Mahama, Department  
of Agricultural Engineering, University of Ghana

**URL of the Society**

Unavailable at present, but it is currently part of the WASAE:  
<http://www.wasae.org>

**Call for Abstracts**  
**AgEng 2008**  
**International Conference on**  
**Agricultural Engineering & Industry**  
**Exhibition**  
**Agricultural and Biosystems Engineering for a**  
**Sustainable World**  
**23–25 June 2008, Hersonissos, Crete, Greece**  
<http://www.ageng2008.com>

Following our previous communication regarding the AGENG 2008 Conference, *Agricultural & Biosystems Engineering for a Sustainable World*, which will be held on the island of Crete, from 23 to 25 June 2008 at the Knossos Royal Village Conference Centre, we would like to inform you that the conference website is now functional.

Registration and abstract submission:

Interested contributors are kindly requested to submit their abstracts electronically (<http://www.ageng2008.com>) by 1 October 2007. All abstracts will be reviewed and authors will be notified about the acceptance of their papers by 14 December 2007. Kindly note that the full paper submission deadline is 14 March 2008.

The 1<sup>st</sup> announcement of the conference can be downloaded at <http://www.vougas.gr/files/Image/AgEng2008%201st%20Announcement.pdf>

*Kind regards,*  
*AgEng 2008 Secretariat*  
*Vougas Associates*  
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 E-mail: [secretariat@ageng2008.com](mailto:secretariat@ageng2008.com)

**10<sup>th</sup> Inter-Regional Conference on**  
**Water and Environment**  
**(ENVIROWATER 2007)**  
**Ensuring Water and Environment for**  
**Prosperity and Posterity**

New Delhi, India  
 The Indian Agricultural Research Institute  
 17–20 October 2007

**Organized by**  
 The Indian Society of Water Management  
**In collaboration with**  
 The Indian Society of Agricultural Engineering and  
 International Commission on Agricultural Engineering  
<http://www.iswam.in/envirowat2007/>

The last date for registration without late fees has been extended to 31 August 2007. Please ignore this message if you have already paid the registration fees. We look forward to hearing from you. Please feel free to contact us, or access the website [www.iswam.in](http://www.iswam.in) for further details.

*Dr. A K Singh*  
*Organizing Secretary*

The details regarding the registration fees are as follows.

| Nature of participants             | Indian Delegates (Rs.)                             | Foreign Delegates (US \$)                              |
|------------------------------------|--|--|
| Delegates                          | 4000 (Rs. 5000 after 31 <sup>st</sup> August 2007) | US \$300 (US \$400 after 31 <sup>st</sup> August 2007) |
| Students/research scholars/fellows | 2000 (Rs. 2500 after 31 <sup>st</sup> August 2007) | US \$150 (US \$200 after 31 <sup>st</sup> August 2007) |
| Accompanying person                | 1000   | US \$100   |

### 3. News from Sections and Working Groups

#### Minutes of the Section II Board Meeting

**Farm buildings, Equipments, Structures and  
the Environment**  
**Sunday, 18 April 2007,**  
**Ede, Netherlands**

CIGR Section II activities in 2007 and future activities in 2007

Section II Board meeting:

- 18 March 2007, Conference Centre 'De Reehorst', Ede, the Netherlands

Working group meetings:

- 2<sup>nd</sup> workshop of the CIGR Section II Working Group 'Animal Housing in Hot Climates': 01–04 April 2007, Cairo, Egypt

Co-organized conferences:

- International Ammonia Conference in Agriculture: 19–21

March 2007. The Conference was held in the Conference Centre 'De Reehorst', Ede, the Netherlands

- International Dust Conference (DustConf) 2007 - How to Improve Air Quality: 23–24 April 2007 in Maastricht, the Netherlands

- 3<sup>rd</sup> European Conference on Precision Livestock Farming (ECPLF): 03–06 June 2007, Skiathos, Greece

- GreenSys2007 'High Technology for Greenhouse System Management': 04–06 October 2007, Naples, Italy

- SEAg 2007 (Society for Engineering in Agriculture), National Conference—Agriculture and Engineering Challenges Today, Technology Tomorrow: 23–26 September 2007

- Joseph Flaba provides some information on the 'cattle housing working group': The group met twice in 2006 and once in 2007; three chapters are ready for publication, and the rest will be published soon.

**Additional information**

- EFITA, Glasgow, July 2–5
- ISAH, September 2007, Croatia: Animal Science
- Network of Excellence (MedVetNet) conference in June in Italy

Discussion on new working groups:

- Working group on greenhouse engineering; discussion to be held during GreenSys2007 in Naples/ future activities

**ILES workshop:** ILES and the Brazil conference will be held concurrently from 1–7 September 2008, in Rio, Brazil (CIGR/ASABE/Brazilian ASABE; \$20 entry fee for the ASABE and CIGR; see Bonn minutes)

**Sustainable concrete for agriculture**

ILES, CIGR and the sustainable concrete in agriculture conference will be connected in Brazil. Colleague Bartali suggested organizing it in Morocco, but we are attempting to combine all three conferences. It has been agreed to reduce the number of conferences as well as to combine the workshops. Brazil had suggested combining the sustainable concrete conference with ILES.

As agreed in Bonn, Section II will contribute to the reviewing process of the ILES.

Rich Gates has invited keynote speakers for ILES 2008. He will send the keynote note to whoever is interested or has suggestions.

here is preference to visit facilities in Brazil before the conference.

**Cooperation with EurAgEng:** Special Interest groups (SIGs) will be invited to Section II meetings (combined meetings) from the livestock and air quality working groups.

**General Comments on how we organise conferences** and how we can obtain a better calendar of activities:

Here, we present some ideas proposed by Daniel Berckmans and Eberhard Hartung while they were returning from a CIGR meeting last year and which were sent to the CIGR in May 2006.

The main idea is to set up an international agenda for meetings. We also believe that the main role of CIGR is to organize and negotiate the international calendar of conferences, workshops, etc. Everyone, participants and organisers, has been suffering on account of the numerous meetings. Therefore, CIGR should broaden its role and visibility by taking the lead as an umbrella organisation to resolve this difficult issue. (Appendix 2)

The section did agree that the ILES 2008 is the first test case. Rich Gates has sent an application to Section II.

Upcoming workshops: Eileen Wheeler sent information on the ASABE workshops; CIGR will post this information on the website within 2 weeks.

- Sixth International Dairy Housing Conference, Minneapolis, Minnesota, USA, 16–18 June 2007
- ASABE 2007 Annual International Meeting, Minneapolis, Minnesota, USA, 17–20 June 2007
- International Symposium on Air Quality and Waste Management for Agriculture, Broomfield, Colorado, USA, 15–19 September 2007

**Future topics of Section II:**

- Practical issues in designing very large animal operations
- Future requirements of integrated assessment schemes (cf. KTBL)
- Animal welfare: Health monitoring
- Rich Gates will send a list of possible future topics to Eberhard (for distribution) and a possible future discussion (think tank)
- FB7: [http://cordis.europa.eu/fp7/home\\_en.html](http://cordis.europa.eu/fp7/home_en.html)

Future meetings

The next meetings will be held in Brazil in 2008 and at the EurAgEng in Greece in 2008.

*Prof. Daniel Berckmans*

*Prof. Thomas Banhazi*

*Prof. Eberhard Hartung*

*Chairman of CIGR Section II*

*Vice-chairman*

*Secretary*

25 March 2007

## The Report of CIGR Section IV 29<sup>th</sup> International Symposium Rural Electricity and Other Energy sources Olsztyn, Poland, 19–21 June 2007



The symposium was organized by Prof. J. Piechocki at the University of Warmia and Mazury in Olsztyn (Poland). It was held from 19 to 21 July 2007 at the UWM.

The symposium's participants included 6 Indians, 2 Turks, 2 Serbians, 1 Hungarian, 1 Japanese and more than 40 Poles. There were

22 oral and 8 poster presentations.

The board members agreed on the following items, which will be proposed at the general assembly at the conference in Rio de Janeiro.

- 1) The new name of Section IV was determined: **'Electricity and Other Energy Sources in Agriculture'**. Electricity is still important in agriculture. Biomass energy has also become increasingly important. Other energy sources include biomass and renewable ones. We are going to propose the new section name at the general assembly of the next conference at Rio de Janeiro.
- 2) **The 2008 XXX Symposium of Section IV** will be organized by Prof. G. Papadakis in Hersonissos on Crete Island on 23–25 June 2008.
- 3) **The 2009 XXXI Symposium of Section IV** will be held in Balaton, Hungary and will be organized by Prof. Dr. Zoltan Sibalszky. The date will be announced later.
- 4) Prof. Dr. R. Cengiz Akdeniz was elected as the new **Executive Secretary** for the technical board of the CIGR Section IV. He will be the secretary for the period 2008–2010, after having been approved at the next general assembly.



- 5) A new member for the CIGR Section IV Board has been recommended and proposed at the conference: Prof. Dr. Bhattacharya Tarun, India.
- 6) A few board members of the CIGR Section IV will be changed.

*Prof. Mikio Umeda*  
*Chairperson of the Section Board IV*



**Call for Participation**  
**CIGR Working Group**  
**‘Rural Development and the Preservation of**  
**Cultural Heritages’**

**Second International Round Table Meeting**  
**Agricultural Engineering and Its Contribution**  
**to Rural Development**  
**17–20 September 2007**  
**Kosjeric, Serbia**

**Instructions for participants:**

All participants should prepare lectures concerning the above-mentioned topic and the titles should be sent in advance by 3 August. The presentation should be in a readable and understandable PowerPoint format and brought to the meeting. All presentations will be converted to pdf, uploaded on the CIGR website and copied on CDs; approximately 20 copies will be printed in the form of meeting proceedings.

**Conditions:**

All participants will be provided with free transportation from Belgrade airport and free accommodation during the meeting.

**Preliminary program:**

17.9.2007: Gathering of participants in Belgrade and their transfer to Kosjeric (Central Serbia region),  
18–19.9.2007: Official meeting—presentations, technical tour in the vicinity of the venue and farewell party,  
20.9.2007: Departure and transfer to Belgrade.

**On behalf of the organizers:**

Prof. Dr. Kamil Okyay Sindir  
Faculty of Agriculture, Ege University, Izmir, Turkey  
kamil.sindir@ege.edu.tr  
Prof. Dr. Milan Djjevic  
Faculty of Agriculture, University of Belgrade  
mdjjevic@agrifaculty.bg.ac.yu

## 4. CIGR Co-sponsored Activities

**36<sup>th</sup> International symposium: ‘Actual tasks**  
**in Agricultural Engineering’**  
**11–15 February 2008, Opatija, Croatia**  
**<http://atae.agr.hr/>**

**About the symposium**

The fact that the symposium ‘Actual Tasks in Agricultural Engineering’ has been organized for 36 years highlights its tradition and importance. In the recent years, the symposium has gained greater international significance, thanks to the co-sponsorship by EurAgEng, CIGR, AAEE and AAEESEE. Papers from the symposium’s proceedings are indexed into the world’s famous databases as ISI Proceedings (part of the ISI Web of Knowledge), ISI - Index to Scientific & Technical Proceedings, CABI Agricultural Engineering Abstracts, InterDok and Cambridge Scientific Abstracts - Conference Papers Index.

**Aim of the symposium**

The aim of the symposium is to present the latest scientific results on all aspects of research, design and development work in the various disciplines of agricultural engineering.

**Topics**

The main topics to be covered in the symposium are as follows:

- **Land & water use and the environment**
- **Power and machinery**
- **Information systems and precision farming**
- **Livestock technology**
- **Processing & post-harvest technology and logistics**
- **Energy and non-food production technology**
- **Systems engineering and management**
- **Fruit & vegetable cultivation systems**
- **Global issues**

**For further information, please contact:**

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## 5. Other Activities

### Letter from Dr. Petraq Papajorgji

Cemagref/CIRAD (France) and IFAS-University of Florida are organizing a 5 day seminar titled "Modeling agricultural and environmental systems using the object-oriented and the Unified Modeling Language (UML) approach" October 15-19, 2007 in Montpellier, France. The seminar will be hosted by the Maison de la Teledetection, Montpellier and targets specialist in agricultural and environmental areas to get acquainted with this new approach. There are already 18 people subscribed to this event but there are still some vacant places if there is interest on this activity.

For more information please contact  
Pinet François [francois.pinet@cemagref.fr] or  
Petraq Papajorgji [petraq@ufl.edu]

*Dr. Petraq Papajorgji*

### Food Safety and Processing Technology 29–30 November 2007

**Ho Chi Minh City, Vietnam**

<http://www.hcmuaf.edu.vn/Web%20s%20conference/International%20Workshop.htm>

#### Themes

- Food safety and hygiene, food poisoning and food control
- Food nutrition
- Engineering properties and applications
- Post-harvest technology
- Novel methods of food preservation and processing

#### Venue

Nong Lam University, Ho Chi Minh City

#### Important Deadlines

Abstract acceptance: **31 August 2007**

Submission of full papers: **30 September 2007**

Hotel, transportation and field trip registration: **30 October 2007**

#### Organizers:

Dr. Trinh Truong Giang, Rector of Nong Lam University, Vietnam

#### Workshop Secretary:

Dr. Long Thanh Truong, Vice-Dean; Faculty, Food Science and Technology Nonglam University

Tel: +84 8974002

Fax: +84 7240077

E-mail: longtruong66@hotmail.com

### The 2<sup>nd</sup> Annual Pacific Rim Summit on Industrial Biotechnology and Bioenergy Building innovative collaborations across the Pacific

**14-16 November, 2007, Honolulu, Hawaii**

[www.bio.org/pacrim](http://www.bio.org/pacrim)

#### 2007 Program Tracks

1.) Bioenergy Production (ethanol, cellulosic ethanol, biodiesel, microbial fuel cells, energy from algae etc.)

2.) Marine Biotechnology & Bioprospecting (Pharmaceuticals and other products from marine organisms, and bioprospecting)

3.) Novel Applications & Nanotechnology (the biotech-nanotech interface, national defense applications, surfactants, biofilms and other novel industrial apps.)

4.) Biobased Products, Bioplastics & Renewable Chemical Platforms (advanced crops, biopolymers, renewable chemicals from agricultural feedstocks, fine chemicals and other chemical platforms)

### MODEL-IT 2008

#### IV International Symposium on Applications of Modelling as an innovative Technology in the Agri-Food Chain

**9–11 June 2008, Madrid, Spain**

<http://www.model-it2008.upm.es/>

We are pleased to present the URL for Model-IT 2008 (IV International Symposium on Applications of Modelling as an Innovative Technology in the Agri-Food Chain) to be held in Madrid, from 9 to 11 June 2008.

We invite you to visit the website and carry out a preliminary registration as a declaration of interest for attending this symposium.

We look forward to welcoming you in Madrid.

*Pilar Barreiro*

*Francisco Javier Arranz*

*Maarten Hertog*

#### Areas of Interest

1. Conceptual models; Multidisciplinary approaches
2. Soft and hard modelling; Modelling of agrochemical processes; Bioreactors and bioremediation
3. Application of multi-physics; Heat and mass transfer, fluids, complex media, modelling packaging systems and use of models for optimization; Model reduction
4. Modelling at a multi-scale level; Event-driven and time-driven systems; Hybrid systems; Nanotechnology
5. Modelling and simulation tools for bio-robotics, sensor development and signal processing
6. Building knowledge from data mining and chemometrics; Knowledge-based systems; Risk analysis; Econometrics
7. Modelling crop dynamics, genetics and genomics for precision agriculture and agroindustrial purposes

#### Important dates

|                 |                                       |
|-----------------|---------------------------------------|
| 1 October 2007  | Deadline for submission of abstracts  |
| 1 November 2007 | Invitation to submit a full paper     |
| 1 February 2008 | Deadline for submission of full paper |
| 1 March 2008    | Notification of acceptance            |
| 30 April 2008   | Early registration deadline           |

#### Location

The *Escuela Técnica Superior de Ingenieros Agrónomos* is located in *Ciudad Universitaria* in the northwest of Madrid.

## 6. Publications

### Agricultural Engineering International—The CIGR E-journal

**Dr. Lingjuan Wang, Editor-in-Chief**

<http://cigr-ejournal.tamu.edu>

ISSN 1682-1130

Send manuscripts for peer review to:  
[stout@tamu.edu](mailto:stout@tamu.edu)

The CIGR electronic journal is now in its ninth year of publication. It has grown from a modest beginning and is now attracting many quality manuscripts. All the published papers are available free of charge on the website: [cigr-ejournal.tamu.edu](http://cigr-ejournal.tamu.edu). Here is a summary of the number of papers published to date:

Peer-reviewed original research papers (total: 318):

|  |                      |              |               |
|--|----------------------|--------------|---------------|
| 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 through July): 58 (including 16 ATOE papers) |                      |              |               |
| Invited peer-reviewed overview papers (total: 107):        |                      |              |               |
| 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: 10  |                      |              |               |

As expected, the published papers are from a broad international base of 52 countries.

Please check the E-journal and note that 16 papers from the ATOE conference are now posted on the website at [cigr-ejournal.tamu.edu](http://cigr-ejournal.tamu.edu). This conference was held at the same time as the Congress in Bonn last September. Having these papers in the E-journal will increase their availability to interested readers and thereby increase the scope of CIGR's service to agricultural engineers around the world.

#### Peer-reviewed original research papers:

Australia-2, Bangladesh-1, Belgium-4, Botswana-1, Brazil-7, Canada-10, Cameroon-3, China-7, Czech Republic-3, Denmark-13, Egypt-2, Estonia-5, Ethiopia-2, Finland-2, France-1, Germany-23, Greece-8, India-16, Indonesia-3, Ireland-1, Iran-2, Israel-2, Italy-9, Japan-32, Lebanon-2, Lithuania-3, Mexico-3, Netherlands-3, Nigeria-41, Pakistan-1, Poland-6, Portugal-6, Serbia-1, Spain-7, Sweden-4, Tanzania-2, Thailand-9, Turkey-3, United Arab Emirates-1, USA-25.

#### Invited peer-reviewed overview papers:

Australia-1, Bangladesh-2, Brazil-3, Canada-3, China-4, Denmark-2, Egypt-1, FAO-3, France-1, Germany-12, Greece-1, India-7, Indonesia-1, Israel-1, Italy-16, Japan-4, Kenya-1, Mexico-1, Morocco-1, Netherlands-3, Nigeria-13, Oman-3, Palestine-1, Poland-1, Portugal-1, Russia-1, Swaziland-2, Taiwan-1, Thailand-2, UK-3, USA-18, Yugoslavia-2, Zimbabwe-1.

I invite all of you to submit manuscripts for peer review and publication. Publishing or accessing and printing papers is free of cost. The website has all the details regarding manuscript format, submission, etc. If you have any questions, please email me at [stout@tamu.edu](mailto:stout@tamu.edu)

**Dr. B. A. Stout, Coordinator, 3 August 2007**

### From Prof. Da-Wen Sun

Dear Colleague,

I would be most grateful if you could recommend the following two new books published in 2007 (i.e. 'Computational Fluid Dynamics in Food Processing', and 'Computer Vision Technology for Food Quality Evaluation') to the library of your organization. Thank you.

*Professor Da-Wen Sun, Director; Hon. Vice-President, CIGR;  
Editor-in-Chief, Food and Bioprocess Technology (Springer);  
Food Refrigeration & Computerised Food Technology;  
National University of Ireland, Dublin;  
(University College Dublin)*

#### **Computational Fluid Dynamics in Food Processing (Contemporary Food Engineering Series) (Hardcover)**

by Da-Wen Sun (Editor)

**Key Phrases:** blowing duct, cabinet zone, egg pasteurization processes, Journal of Food Engineering, New York, International Journal of Refrigeration (more...)

#### **Editorial Reviews**

#### **Book Description**

Written by international peers from academia and the industry, computational fluid dynamics in food processing provides critical, comprehensive, and readily accessible information on the art and science of computational fluid dynamics technology. This book presents an overview of this powerful design and analysis tool and offers an in-depth discussion of recent advances and applications in the food industry. These applications include analysing and optimizing cold-chain facilities; the modelling of drying, baking and heating processes; heat exchangers; emulsion; tea fermentation and equipment hygiene. This book provides engineers and technologists in research, development and operations with the tools to optimize new and existing processes and systems.

#### **Product details**

- **Hardcover:** 760 pages
- **Publisher:** CRC; 1<sup>st</sup> edition (24 May 2007)
- **Language:** English
- **ISBN-10:** 0849392861
- **ISBN-13:** 978-0849392863

#### **Computer Vision Technology for Food Quality Evaluation (Food Science and Technology) (Hardcover)**

by Da-Wen Sun (Editor)

#### **Editorial Reviews**

#### **Book Description**

The first book in this rapidly expanding area, *Computer Vision Technology for Food Quality Evaluation*, thoroughly discusses the latest advances in image processing and analysis. Computer vision has attracted much research and development attention in recent years and, as a result, significant scientific and technological advances have been made in quality inspection, classification and the evaluation of a wide range of food and agricultural products. This unique work provides engineers and technologists working in research, development and operations in the food industry with critical, comprehensive and readily accessible information on the art and science of computer vision technology. Undergraduate and postgraduate students and researchers in universities and research institutions will also find this as an essential reference source.

-Discusses novel technology for recognizing objects and extracting quantitative information from digital images in order to provide objective, rapid, non-contact and non-destructive quality evaluation.

-International authors with both academic and professional credentials address, in detail, one aspect of the relevant

technology per chapter, making this ideal for use as a textbook.

-Divided into three parts, it begins with an outline of the fundamentals of the technology, followed by a full coverage of the application in the most researched areas of meats and other foods, fruits, vegetables and grains.

**Product details**

- **Hardcover**
- **Publisher:** Academic Press (25 November 2007)
- **Language:** English
- **ISBN-10:** 0123736420
- **ISBN-13:** 978-0123736420



**CIGR Section Boards** (Elected in September 2006)

|                     |  |
|---------------------|--|
| <b>Section I:</b>   | <i>Land and Water Engineering</i> (Chair: Jose M. Tarjuelo (Spain))                              |
| <b>Section II:</b>  | <i>Farm Buildings, Equipment, Structures and Environment</i> (Chair: Daniel Berckmans (Belgium)) |
| <b>Section III:</b> | <i>Equipment Engineering for Plants</i> (Chair: Arturo Lara-Lopez (Mexico))                      |
| <b>Section IV:</b>  | <i>Rural Electricity and Other Energy Sources</i> (Chair: Mikio Umeda (Japan))                   |
| <b>Section V:</b>   | <i>Management, Ergonomics and Systems Engineering</i> (Chair: Pietro Piccarolo (Italy))          |
| <b>Section VI:</b>  | <i>Post-harvest Technology and Process Engineering</i> (Chair: Jozef Grochowicz (Poland))        |
| <b>Section VII:</b> | <i>Information Systems</i> (Chair: Fedro Zazueta (USA))  |

All correspondence and information on forthcoming activities should be sent to  
The CIGR General Secretariat

Professor Dr. Emeritus Takaaki Maekawa, Secretary-General

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