

International Commission of



Agricultural Engineering

CIGR

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Since 1930-2006
76 Years of CIGR

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

1. CIGR NEWS

The XVth CIGR World Congress in Bonn 2006

“Agricultural Engineering for a Better World”

3rd-7th September, 2006

Bonn 2006 has been a great, excellent Congress!

The XVth CIGR World Congress took place in Bonn, Germany, 4 to 6 September 2006, under the theme “Agricultural Engineering for a Better World”, jointly organized by CIGR, EurAgEng, the European Society of Agricultural Engineering, the Ag Eng branch of VDI, the German Society of Engineers, and the FAO. The organization was excellent and sincere congratulations are due to the organizers. CIGR past President Axel Munack, Peter Schulze-Lammers, former Secretary General, and Frauke Beeken, former Secretary; Ludger Frerichs, President of VDI-MEG; Bill Day, President of EurAgEng; and Gavin Wall, representative of FAO, that organized a special Workshop.

At the Congress opening ceremony, State-Secretary Dr. Gerd Müller from the German Ministry of Food, Agriculture and Consumer Protection emphasized the key role of research and education for the development of agricultural machinery and modern sustainable agricultural production.

The Bonn Congress was a great success in terms of attendance, number and quality of oral presentations and poster papers, ceremonies and occasions for get together, and in terms of organization and program. Participants were around 800 and came from 55 different countries from all Continents; however, might be expected, the majority were from the European countries. Oral presentations consisted of 89 sessions and a FAO special session. A book of abstracts and a CD-ROM including papers were produced and may be purchased from VDI.

The Congress was also the occasion for the meetings of the governing and technical bodies of CIGR, which were held 2 and 3 September, and for the General Assembly that met by 6 September and led to electing the new governing bodies of CIGR and to approve the proposal of the Chinese Society to hold the XVIIIth CIGR World Congress in Beijing by 2014.

The election of the new incoming President, who will be in office 2009-2010: Prof. Dr. Søren Pedersen, Head of research at the Department of Agricultural Engineering, Danish Institute of Agricultural Sciences, Denmark. He got his PhD in Farm Machinery in 1971 at the Royal Veterinary and Agricultural University, Copenhagen, Denmark, and was awarded an Honorary Doctorate from the Swedish University of Agricultural Sciences last year. In his research

career he has been working with farm buildings, especially with climatization of animal houses, working environment, and recently also with pollutant emissions from animal houses. His involvement with CIGR goes back to 1977, when he became a member of the Working Group on “Climatization of Animal houses”. Later on, in 1994, he became a board member of Section II, on “Farm Buildings, Equipment, Structures and Environment”, then Secretary in 1998 and finally Chairman in 2002. In addition, he served as chairman of Section VII, Agricultural Engineering (1988-1992), of the Nordic Association of Agricultural Scientists. Thus I have to congratulate CIGR for having elected him, and warmly welcome Søren as incoming member of the Presidium.

Because CIGR is a federation of regional and national societies, it is important to notice that ties with the member societies were reinforced. After the elections, most of them are part of the Executive Board, which is the main governing body of CIGR. The following Regional Associations are now represented on the Executive Board ----ASABE, EurAgEng, the Asian Association of Agricultural Engineers and ALIA, the Latin American Association, also the Euro-Asian Association, grouping the Agricultural Engineers of Russian speaking countries, and the South East Europe Association, that groups the Balkan and Black Sea countries, together with some national societies from various continents. This worldwide representation in the governing bodies is very important and may help to overcome the cultural diversity and the difference problems and approaches throughout the world. Hopefully, this will improve the services provided by CIGR. Congratulations to the new elected EB members!

The seven Technical Sections of CIGR have now new Chairs and new members in the respective Section Boards. The participation of colleagues from all regions is increased relative to past, thus providing for a wider regional distribution, which hopefully will improve technical activities of CIGR, hence its impact worldwide. Working Groups were also renewed and activities in

new areas such as remote sensing, rural development and rural landscapes were initiated. Sincere thanks and congratulations to new Section and Working Group Chairs and members!

The ambience provided by the host city, Bonn, was be greatly appreciated. Because Bonn is a small town and the University is in the old centre, it was easy for people to enjoy



The President of CIGR



State-Secretary Dr. Gerd Müller

meeting during the evenings; because Bonn is an academic and international town, with 12 United Nations institutions having headquarters there. There is a friendly, international atmosphere for visitors; And because Bonn is the birthplace of Beethoven, appropriate music was present at the ceremonies; Because the river Rhine flows through Bonn, the dinner was served on a splendid boat navigating on the river; and because Bonn was the capital of Germany until few years ago, it was possible to have the awards ceremony in the former parliament house. This ceremony was particularly impressive and appropriate to underline the recognition objectives of awards and to provide a nice atmosphere for the

awardees themselves.

CIGR is in good health and as ever seeks for increasing the collaboration with all member societies. Let's meet next in Rio de Janeiro for the International Conference, in Quebec for the next Congress 2010, and at Beijing, in 2014.

Lisbon, 18 September 2006

Luis Santos Pereira
President of CIGR

CIGR's Awards Recipients of the 2006 World Congress

This year's CIGR Awards were handed over during a ceremonial session of the World Congress in the former German Parliament Chamber, together with the EurAgEng and VDI Awards. This ceremony took place on September 5, 2006.

Let me first address the procedure within CIGR: The Past President is the Chair of the Awarding Committee and prepares the proposals to the Executive Board. After decision of the Executive Board, some Awards were handed over during the awarding ceremony, and some were handed over during the General Assembly, which took place on September 6.

In my function as the Past President I read the texts of the awards while President Luis Pereira handed over the documents and plaques.

The CIGR Electronic Journal „Agricultural Engineering

International“ is now in its 8th year of operation and we have published 243 peer reviewed original research papers and 95 invited overviews with authors from 48 countries.

The CIGR Electronic Journal Prize is presented to authors who have published excellent papers in the CIGR Electronic Journal. The candidates are recommended by the coordinator of the E-Journal, Professor Bill Stout. CIGR was honoured to present this years Electronic Journal Prizes to the following authors:

Justin Hakgamalang Chepete and Rejoice Tsheko from the Botswana College of Agriculture in Gaborone, Botswana, for their paper on “Hot and Cold Weather Heat Loads Dynamics of Uninsulated Broiler Houses in Botswana”; **Mati Heinloo and Jüri Olt** from the Estonian University of Life Sciences in Tartu, Estonia, for their paper on “The Method of Virtual Reality for Creation of a Disk-Ridging Tool”; **Winfried Reimann** from the Leibniz-Institute of Agricultural Engineering in Potsdam-Bornim, Germany, for

his paper on “Downstreaming of Lactic Acid from Hydrolysate of Rye after Fermentation”.

The CIGR Armand Blanc Prize is an award for students and young members under 30 years of age who have presented papers at the World Congress. This award is limited to three papers and the World Congress organizing committee selects the recipients.

This years Armand Blanc Prizes were presented to

Mirwan Ushada, Haruhiko Murase and Hirokazu

Fukuda, Osaka Prefecture University, Japan, for their paper entitled “Development of Intelligent Diagnostic System for Moss Quality in Plant Factory”; **Pia Mähner and Bernd Linke,** Leibniz-Institute of Agricultural Engineering in Potsdam-Bornim, Germany, for their paper “Biogas Production from Energy Crops and Cattle Slurry under Meso- and Thermophilic Conditions”;

Teresa Riquelme,

Margarita Ruiz-Altisent, Constantino Valero and Pilar Barreiro, Polytechnic University of Madrid, Spain, for their paper “Olive classification by external damage using image analysis“.

CIGR is an association of national and regional societies of agricultural engineering. Our members represent over 95 countries around the world. Many individuals have contributed to the success of CIGR over the years.

This year, CIGR presented Presidential Citations to five individuals to recognize their outstanding contribution to the success of CIGR.

Professor **Josse De Baerdemaeker,** Professor in Agricultural Engineering and Chairman of the Department of Agro-Engineering and Economics, Katholieke Universiteit Leuven - For his outstanding cooperation with CIGR and, in particular, the organization of the AgEng 2004 Conference in Leuven.

Professor **Vladimir Popov,** Academician of the Russian



Academy of Agricultural Sciences and Director of the North-West Research Institute of Agricultural Engineering and Electrification - For his outstanding leadership in planning and coordinating contacts with CIGR and, in particular, the organization of the IV International Conference on Ecology and Agricultural Machinery and the related meetings.

Dr. **Ludger Frerichs**, President of the Max-Eyth-Gesellschaft für Agrartechnik within the German Engineers Association (VDI-MEG), Düsseldorf, Germany and in charge of advanced engineering for CLAAS, Harsewinkel - For his outstanding leadership within the VDI-MEG and specifically for his work devoted to the preparation of the World Congress "Agricultural Engineering for a Better World", jointly organized by CIGR, EurAgEng, and VDI-MEG.

Professor **Bill Day**, Silsoe Research Institute, Silsoe, Great Britain - For his continual cooperation with CIGR while being President of EurAgEng and, in particular, the support of the joint World Congress "Agricultural Engineering for a Better World" in Bonn.

Dr. **Gavin Wall**, FAO, Rome - For cooperation with CIGR and, in particular, the support of the joint World Congress "Agricultural Engineering for a Better World" in Bonn.

The CIGR Merit Award is given to members who achieved remarkable works for CIGR.



Prof. Axel Munack

This year's awards were given to 9 persons who contributed in various positions to the successful work of our society.

Dr. **Rosana Moreira**, Texas A&M University, for her 4 years of fruitful work in the development of the CIGR E-Journal as editor-in-chief of the journal. Unfortunately, Dr. Moreira was not present at the Congress.

Professor **Mauro Greppi**, Istituto di Idraulica Agraria, University of Milan, Italy, for several years as an active Secretary of the Board of CIGR's Technical Section No. 1, Land and Water Engineering, and in particular for activities related to the CIGR World Congresses at Milan, Rabat, Tsukuba and Chicago.

Professor **Antonio Brasa Ramos**, Escuela Tecnica Superior de Ingenieros Agrónomos, Albacete, Spain, for his self-commitment to the successful work of CIGR's Technical Section No. 1, Land and Water Engineering, as the secretary of this Section.

Dr. **Volker Niklahs**, Federal Ministry of Food, Agriculture, and Consumer Protection, Bonn, Germany, for his continuous support of CIGR's General Secretariat and, in particular, his support to this World Congress.

Professor **Yohei Sato**, National Institute for Agro-Environmental Sciences, Tsukuba, Japan, for his excellent leadership within CIGR's Technical Section No. 1, Land and Water Engineering.

Professor **Søren Pedersen**, Danish Institute of Agricultural Sciences, Horsens, Denmark, for his outstanding leadership within CIGR's Technical Section No. 2, Farm Buildings, Equipment, Structures & Environment.

Professor **Da-Wen Sun**, University College Dublin, Ireland,

for his outstanding achievements during his leadership within CIGR's Technical Section No. 6, Postharvest Technology and Process Engineering.

Professor **Krister Sällvik**, Swedish Agricultural University, Alnarp, Sweden, for his excellent work as chair of CIGR's Working Group No. 13 on Air Quality Environment in Animal Houses.

Professor **Shujun Li**, Vice-President of the Chinese Academy of Agricultural Mechanization Science, for his outstanding initiative to translate – until now – two volumes of the CIGR Handbook of Agricultural Engineering into the Chinese language.

It was an honour and a privilege to present the class of CIGR Fellows for 2006 – being recognized for their contributions to our profession and to CIGR.

The title of CIGR Fellow is conferred on individuals who have contributed, and who continue to contribute, to the worldwide activity of CIGR. A candidate must have been an active member for at least ten years, played a key role in CIGR, and have been approved by the Executive Board.

Professor **El Hassan Bourarach**, Institute of Agronomy and Veterinary Medicine Hassan II, Rabat, Morocco, has promoted agricultural mechanization in African countries and has made outstanding contributions to the work of CIGR through his leadership of CIGR's Technical Section No. 3 on "Equipment Engineering for Plant Production".

Emeritus Professor **Bill Stout**, Texas A&M University, USA, has served CIGR in many ways. In this case, CIGR honoured him for his continuous and very successful work for the development of the CIGR Electronic Journal "Agricultural Engineering International".

Professor **El Houssine Bartali**, Institute of Agronomy and Veterinary Medicine Hassan II, Rabat, Morocco, has also served CIGR in many ways. This time CIGR honoured him for his continuous and very successful work for establishing, supporting and maintaining CIGR's relations to Arabian countries.

Emeritus Professor **Makoto Hoki**, Mie University, Japan, has worked for a long time in order to establish and maintain excellent relations between the Japanese Agricultural Engineering Society and CIGR. This fruitful work, which helped to pave the way to the move of the CIGR General Secretariat to Tsukuba, Japan, was honoured by this award.

Professor **Wang Maohua**, Beijing Agricultural Engineering University, Beijing, China, has contributed in many ways to the promotion of CIGR in China. Among these, this led to the very successful Agricultural Engineering International Conference 2004 in Beijing, China.

Professor **Osamu Kitani** has served CIGR in many ways. This time, CIGR honoured him for his work as editor-in-chief of the Volumes 1 to 5 of the CIGR Handbook of Agricultural Engineering.

The following CIGR Awards are sponsored by industry:

The KAMICO Prize is sponsored by the Korea Agricultural Machinery Industry Cooperative. This year's prize was given to Professor **Ki-Myung Lee** from the Kyungpook National University, Korea. Unfortunately, he could not be present at this Congress. He was awarded as a former chairman of the Korean Society for Agricultural Machinery and for his contribution to promote mechanization of Korean agriculture. The second industrial award, the UNACOMA Prize, is sponsored by the Italian Farm Machinery Manufacturers Association (Unione Costruttori Macchine Agricole). This

award was presented personally by the President of UNACOMA, Mr. Massimo Goldoni. This year's prize went to Professor **Axel Munack** from the Federal Agricultural Research Centre (FAL) in Braunschweig, Germany, for extraordinary achievements in the development of agricultural machinery, energy and biomass engineering through CIGR activities, notably for outstanding work as editor-in-chief of the CIGR Handbook of Agricultural Engineering.

Most of you will know that a very close relationship has existed for many years between the Club of Bologna and CIGR. Therefore, CIGR was very proud to announce that the Club of Bologna took the opportunity of the Awarding Ceremony to appoint its first Honorary President. This ceremony was performed by the acting President of the Club, Prof. Ettore Gasparetto. The text of the document is the following: "The Club of Bologna and the Unacoma thank Prof. Dr. Ing. **Giuseppe Pellizzi**, first President, from 1989 to 2003, of the Club of Bologna, for his outstanding activity for the development of the agricultural mechanisation worldwide and felicitate him for his nomination as Honorary President of the Club of Bologna."

Signed: The President of the Club of Bologna, Ettore Gasparetto, and the President of Unacoma, Massimo Goldoni.

This completes the list of CIGR awards and awardees who received their recognition during the Awarding Ceremony in the former German Parliament Chamber.

The following awards were handed over during the CIGR General Assembly.

The title of Honorary President of the International Commission of Agricultural Engineering was conferred to two outstanding persons:

To Professor **El Houssine Bartali** in recognition of his

distinguished services during the period 1998 - 2004 as President of the International Commission of Agricultural Engineering and in token of the warm regard in which he is held by his colleagues;

and to Professor **Peter Schulze Lammers**, University of Bonn, Germany, in recognition of his distinguished services during the period 1998 - 2005 as Secretary-General of the International Commission of Agricultural Engineering and in token of the warm regard in which he is held by his colleagues.

The title of Honorary Vice-President of the International Commission of Agricultural Engineering was conferred to seven distinguished persons:

Professors **Yohei Sato**, National Institute for Agro-Environmental Sciences, Tsukuba, Japan; **Søren Pedersen**, Danish Institute of Agricultural Sciences, Horsens, Denmark; **Oleg Marchenko**, Russian Federation National Committee

on Agricultural Engineering, Moscow, Russia; **Abdullah Kamaruddin**, Bogor Agricultural University, Bogor, Indonesia; **Tadeusz Juliszewski**, Agricultural University of Krakow, Krakow, Poland; **Da-Wen Sun**, University College Dublin, Dublin, Ireland; and **Nick Sigrimis**, Agricultural University of Athens, Athens, Greece, for having been serving with distinction in the capacity of Chairs of CIGR's Technical Sections during the years 2002 - 2006.

To all of the above quoted awardees, let me extend my personal congratulations and those of the whole Agricultural Engineering community. Thank you very much for your support of CIGR and our profession!

Prof. Axel Munack,

Past President of CIGR,

Organization Committee of the World Congress 2006



Participants of CIGR World Congress 2006 in front of the Building of University of Bonn

Rules for Operation of CIGR's Technical Sections

CIGR is organised in Technical Sections, presently seven, representing the main scientific fields relative to Agricultural Engineering. The Sections have the task to carry out technical-scientific activities to promote the development of the considered field of science and technology. Therefore, the sections are the essential working bodies of CIGR, give dynamics to it and produce visibility to its technical work. To create the best conditions for their activities is therefore very important. Therefore, following the statutes and the current successful practice observed for some of the Sections, a few rules are proposed to the consideration of all Section Chairpersons:

1. Each Technical Section is managed by a Section Board formed by 3 Chairpersons - constituted by the Chair, one Vice-Chair, and one Secretary - and up to 13 regular members. Liaison members, representing other technical or scientific societies relative to similar or related fields of science and technology, may also be part of the Section Boards in addition to the regular members. Section Boards may also appoint Honorary Chairs or Honorary Members. These can take part in the Section Board Meetings as guests without vote, but are likewise integrated in the Section's work, information exchange, etc. as the regular Board Members.
2. The members of the Section Boards are proposed by the members of the respective Section. Latest one year before the term is out, the sitting Board makes a proposal for the next term, taking into account the scientific quality of the members as well as a balanced geographical world-wide representative selection. It is therefore desirable that every Regional Society be represented with at least one member in all Section Boards.
3. The mandates are for four years (ranging from one CIGR World Congress to the next one) and may be re-elected for another term, exceptionally for two terms. The Chair cannot be re-elected in the same position. Changes in membership may also be carried out at CIGR International Conferences where a General Assembly is held. The proposed lists are examined by the Executive Board of CIGR and submitted for approval to the General Assembly. The participation of young qualified professionals in Section Boards shall be promoted.
4. Each member of CIGR can join no more than two Technical Sections following his own field of interest.
5. Inactive Board members may be replaced by the Presidium upon recommendation of the Section Chair. Considering the role of Sections and respective Boards for the appropriate functioning of CIGR, it is advisable that a member be considered as inactive after two years without participation in the life of the Section.
6. The Section Boards should meet every year to revise the activities performed and plan new activities as well as for selecting new members, replacing members at end of mandate or inactive members. A report of the meetings, including information about activities performed and the respective plan, shall be prepared by the Secretary to be submitted to the Presidium and then be disseminated through the CIGR Newsletter and/or the CIGR website. It is desirable that Board meetings in years of CIGR Congresses and International Conferences be scheduled for these events.
7. The Section Chairpersons are normally elected in the years of Congress, or exceptionally when one chairperson is impeded to continue his (her) duties. The Chairpersons are elected by the Board members according to their capability and willingness to perform the respective duties. The duties of each chairperson are agreed among them and with the Board members in order that several tasks referred below be assured.
8. The Chair is member of the CIGR Technical Board, which consists of the Presidium and the Chairs of all Technical Sections. It meets preferably once a year (at least every two years) for discussing technical activities and programmes, particularly those involving the collaboration among different Sections, as well as Congresses, Conferences and other meetings. In case he (she) cannot attend a Board meeting, the Chair should be represented by the Vice-Chair or another member of the Section Board.
9. In years of Congresses, or every two years upon internal decision, the Section Board shall revise the "Mission Statement", "Objectives", "Scope", and "Program of Activities" of the Section. The respective revised texts are then part of the Section report. Those texts should be prepared to be publicized in the Newsletter and the website, thus written in such a form that may elucidate every CIGR member and, therefore stimulate collaboration and or exchanges. However, subjects not to be public should be sent for information of the Presidium only.
10. To facilitate the Board meetings, an Agenda must be prepared some months in advance and, since meetings are open to any interested person (as guest without vote), be publicized through the headquarters and the CIGR web site.
11. The Agenda should be available in time to the Presidium to allow the CIGR President to ask the chair to deal with any issues interesting the life of CIGR. Since the Sections are the main operational bodies of CIGR, it is desirable that the Chairs relate intensely with the life of the Society and therefore establish easy links with the Presidium.
12. The Chair should establish good internal communication among members in between two successive meetings. This happens normally if there are activities, i.e. if members feel concerned. The current use of email is desirable to all members but is definitely required to the Chairpersons, so normal communications internal to the CIGR will be developed with the Vice-Chair when the Chair is not able to reply in due time.
13. The Sections need to be involved with the CIGR Congresses and the International Conferences. They may take the initiative to contact the organizers and propose specific activities or themes. Moreover, the sections are free to promote autonomous activities, alone or in collaboration with other Sections or with other Societies. For sponsorship of events some basic rules should be obeyed, which are compiled in a special checklist (see

appendix). As far as possible, these rules or guidelines should also be applied in case of CIGR co-sponsorship, in order to guarantee a certain standard. To avoid confusion, the events organized by the Technical Sections should be named *Symposium*, *Workshop*, etc., whereas the terms *Congress* or *International Conference* should be reserved for the CIGR World Congresses or the CIGR International Conferences.

14. One of the very important tasks of the Sections is to assist the E-Journal editor in searching for reviewers and respective paper reviewing. This task should be assigned to another Chairperson or Board member when the Chair can not fulfil the task. The Sections are asked to prepare a list of about 20 colleagues who are able and willing to take part in the reviewing process for articles submitted for publication in the Ejournal.
15. Publication of papers presented at events organized by the CIGR Sections should preferentially take place in the CIGR Ejournal. This policy should be disseminated already in the Call for Papers of the respective event.
16. The Sections should assure the contacts with the FAO-CIGR network relative to the theme of the Section. This task, as well that for diffusion of information relative to activities and events relative to the Section field,

should be assigned to any Board member having capabilities for easy use of internet facilities.

17. A further task of the Sections consists in assuring the contacts with the General Secretariat of CIGR for keeping updated in the website the page relative to the Section.
18. The Chair may distribute other responsibilities among the chairpersons, including those related with communications with the members, the General Secretariat, or to relate with other Sections, working groups, represent the Section in sponsored or co-sponsored activities or with other Societies, develop contacts to establish sponsoring or co-sponsoring for meetings, and follow up the respective announcements in the Newsletter and website. In any of the above addressed or other assignments of tasks (cf. Art. 8, 14, 16, 17) the General Secretariat should be informed about task, person, and e-mail for correspondence.

Decided by the Presidium of CIGR, after discussion within the CIGR Executive Board and the Technical Board as well as the Section Board Meetings held during the 2004 CIGR International Conference in Beijing

This was also explained to TB members at TB meeting in CIGR 2006 World Congress.

The CIGR World Congresses and Conferences 2008- 2014

CIGR International Conference of Agricultural Engineering, Rio 2008, Brazil, 1-7 Sept. 2008

The conference will be held in Rio de Janeiro, Brazil on 1-7 Sept. 2008. Main theme is "Technology for all, Sharing the knowledge for development". The Organizing Committee has announced for first call for paper.

The Technical Sessions programmed are as following;

1. Structure and Environment
2. Bio-Systems Engineering
3. Food and Feed Processing Technology
4. Information Technology
5. Energy
6. Soil and Water
7. Power and Machinery
8. Issues without Frontiers

http://www.acquacon.com.br/cigr_rio2008

The XVII CIGR World Congress 2010, Québec, Canada, 16-23 June, 2010

The International Commission of Agricultural Engineering (known as CIGR from its French name, Commission Internationale de Génie Rural) will hold its 17th World Congress in Québec City, Canada, 16-23 June, 2010. The Canadian Society of BioEngineering – Société canadienne de génie agroalimentaire et de bioingénierie (CSBE/SCGAB) will be the host Society.

The scientific program includes plenary sessions, parallel oral and poster sessions on the following topics:

1. Soil and Water Systems Engineering
2. Biological Systems Engineering
3. Bioprocessing Systems Engineering
4. Information Systems Engineering
5. Machinery Systems Engineering
6. Building Systems Engineering
7. Waste Management Engineering
8. Environmental Engineering
9. Biomass and Bioenergy Engineering

More information about the 17th CIGR World Congress, 2010 will appear on the following site in the near future.
<http://www.bioeng.ca/Events/CIGR/index.htm>

CIGR international Conference 2012

No applications were submitted. Applications from Regional or National Member Societies are welcome.

XVIIIth CIGR Congress September 2014 Beijing, China

As China is a big agricultural country and great achievements were made in recent years. The greatest contribution of the Chinese agriculture made for the whole world is we have succeeded in sustaining 22 percent of the world population with only 9 percent of the world farmland for the past 50 years. The development and application of the science and technology of agricultural engineering has played a key role.

XVIIIth CIGR Congress

Sponsors: CIGR, CSAM, CSAE

Co-sponsors: Will include local government offices, local, regional and international associations, societies and institutions engaged in agricultural engineering

Organizers: Chinese Academy of Agricultural Mechanization Sciences(CAAMS), Chinese Academy of Agricultural Engineering(CAAE), China Agricultural University

Preparatory Committee: Include famous professors, experts and researchers and industry representatives from China and abroad in agricultural engineering field.

Topics

*Land and water engineering

*Farm buildings, equipment, structures and environment

*Equipment engineering and for plant production

*Rural electricity and other nergy resource

*Management, ergonomics and systems engineering

*Postharvest technology and processing engineering

*Information systems

Time and Venue

September 2014,

The Beijing International Convention Center

Program

5 days including technical tour

2. News from National and Regional Societies

ALIA news :

Report on the VII CLIA 2006

The VII Latin American and Caribbean Congress of Agricultural Engineering (CLIA) was organized by the Faculty of Agricultural Engineering of the University of Concepcion, and the Institute of Agricultural Research (INIA). The congress was held in the touristic center Termas de Chillán, Chile, from 10 to 12 of May, 2006.

Three plenary conferences were presented: The Present and future of Precision Agriculture in Argentina (M. Bragachini); Infrastructure for Information Technology for Agricultural Education (F. Zazueta, USA); and Biotechnology and Fruit Quality in a Globalized World (J.P. Fernández, Spain). A total of 75 oral presentations and 120 posters were presented.

The congress was attended by 168 professionals and 42 students from 16 countries, among them: Argentina, Chile, Brazil, Mexico, Colombia, Perú, Nicaragua, Uruguay, Costa Rica, USA, Canadá, Italy, Spain and Turkey.

In the General Assembly some modifications to the statutes of the Latin American and Caribbean Association of Agricultural Engineering (ALIA) were approved and the new Board of Directors for 2006-2008 were elected as follows: President: Omar Ulloa (Costa Rica); Vicepresident: Horacio González (Nicaragua); Executive Director: Warner Rodríguez (Costa Rica); Lizardo Reyna: Executive Director (S), Ecuador; Treasurer: Roberto Spesny (Costa Rica); Treasurer (S): Ernesto Camarena (Mexico); Executive Secretary: Eugenio Hernández (Colombia); Executive Secretary (S): Wilson Esquivel (Chile).

The auditors are: Daniel Jorajuria (Argentina); Mario



From left: Omar Ulloa (president ALIA), Ernesto Figueroa (Vice Rector U. of Concepción), Jorge de la Fuente (National Director INIA), Luis Salgado (Dean Fac. Agric. Engineering, U. de Concepción) and Jorge González (Director INIA) (www.ladiscusion.cl)

Cavalcanti (Brasil) and Samuel Silva (Mexico).

The VIII CLIA will be held in Managua, Nicaragua from 9 to 11 of May, 2008. Everybody is cordially invited. Papers in Spanish, Portuguese and English will be accepted. The IX CLIA 2010 will be in Brazil and the X CLIA 2012 in Ecuador. For more information see: www.aliaweb.org

*Prof. Omar Ulloa
President of ALIA*

2006 Symposium Report : Third International Conference “Energy Efficiency and Agricultural Engineering”

From June 7th through June 9th “Angel Kunchev” University of Rousse organized the Third International Conference “Energy Efficiency and Agricultural Engineering” in cooperation with the Bulgarian Branch of the Association of Agricultural Engineers “Engineering and research for agriculture”, the IV Section of the International Commission of Agricultural Engineering (CIGR), the European Organization of Agricultural Engineers, The Union of Scientists – Rousse, The Association of Agricultural Engineers in Southeast Europe, the Federation of Scientific Research Unions – Rousse. The conference was held under the auspices of Mr. Ivailo Kalfin, Vice Chairman of the Council of Ministers and Minister of Foreign Affairs.

The main goal of the Conference was allow university lecturers and specialists, mainly from Southeast Europe and the developing countries to present the outcome of research, scientific ideas and their practical applications in the field of energy efficiency in agriculture.

Representatives from 20 countries in Europe, Asia and Africa took part in the Conferences. Romania, Turkey, Croatia, Serbia had the largest representation, followed by representatives of Austria, England, Germany, Greece, Hungary, Egypt, Lithuania, Latvia. For the first time there were representatives from Slovakia and Iran.

Two plenary papers were presented at the Plenary Session: “Structure of Energy Efficient, Environmentally-Friendly Production System” by Prof. K. Andonov and “ University and Industry Cooperation: some attempts of the

Management of Sheffield University to recruit students for participation in projects” by Prof. M. Diprose. The Conference had three sections: Renewable Energy Sources, Energy Efficiency and Education; Machine Design and Control; Advanced technologies and Agricultural Machinery. Over 137 papers were presented on a large number of issues related to increasing the energy efficiency of agricultural production, conservation, using energy from processed agricultural waste, specific problems of the education of agricultural specialists, etc.

The success of the Conference is expressed in the praise of the participants who found the forum extremely valuable and expect the next one to be held in 2008.

Prof. Nicolay Mihailov

*Dean of the Faculty of Electrical & Electronic Engineering
"Angel Kunchev" University of Rousse*

2007 Annual International Meeting (ASABE)

June 17-20 Minneapolis, Minnesota, USA
<http://www.asabe.org/meetings/aim2007/index.htm>

The American Society of Agricultural and Biological Engineer's (ASABE) Annual International Meeting (AIM) will be honoring 100 years of tradition, educational excellence and opportunities as it opens its doors June 17-20 in beautiful Minneapolis, Minnesota.

CIGR got the E-mail from Mr. Charles Sukup, President of ASABE on September 15, 2006 as follows, we answered some comments to ASABE.

Subject: ASABE Centennial Calendar: Historic Dates & Photos Needed by September 22

One of the many centennial projects ASABE has under development for the Society's 100 th Anniversary is a 2007 calendar. We're well underway with the project, but we'd like your assistance in putting the final touches to this commemorative calendar.

Please help us identify dates of historic interest that should be commemorated in the calendar. Of obvious interest are dates related to ASABE sections, university departments, related industry, technology, and government programs. In addition, we'd also like to include historical notes on related events that impacted the profession-discoveries, achievements, biographical dates of interest-highlights among the broader scopes of engineering, agriculture, biology, etc., that shaped our lives, changed or challenged our understanding of the natural world, or otherwise inspired us toward higher achievement.

We are also looking for good photos that are of historic interest to use in our calendar and in other centennial projects. We'll include as many of your suggestions as possible in the calendar, and, if response is strong enough, we'll surely find other uses for them during our year-long observance of the ASABE Centennial.

Please email your suggestions and photos by Friday, September 22, to . Include the date, of course, and if appropriate, a brief description of the event.

We want to make sure that we don't miss any important dates on this special calendar. Thank you for your help in making our centennial more successful!

*Charles Sukup
ASABE President 2006-2007*

2007 CSBE-SCGAB Annual Meeting June 17-20 Minneapolis, Minnesota (to be held together with ASABE Annual International Meeting)

The 2007 CSBE-SCGAB annual meeting will be held together with ASABE annual international meeting in Minneapolis, Minnesota, June 17-20. We will NOT have separate CSBE-SCGAB technical sessions at the meeting. Therefore, if you plan to make presentations at the CSBE/SCGAB annual meeting, please submit your proposals directly to the ASABE.

For any further information, please contact: Dr. Qiang (Chong) Zhang, Department of Biosystems Engineering, University of Manitoba, Winnipeg, MB R3T 5V6, Canada
Phone: (204)474-9819, Fax: (204)474-7512
Email: zhang@cc.umanitoba.ca

International Agricultural Engineering Conference (AAAE) Asian Institute of Technology Bangkok, THAILAND 3-6 December 2007

<http://www.aaae.ait.ac.th/ae-incon/index.htm>

The conference theme:

“Cutting edge technologies and innovations on sustainable resources for world food sufficiency”

Subject Areas:

1. Agricultural engineering education 2. Ergonomics
3. Agricultural systems 4. Food engineering and biotechnology
5. Agricultural waste management 6. Power and machinery
7. Agro-industry 8. Soil and water engineering
9. Electronics in agriculture 10. Structures and environment
11. Energy in agriculture 12. Terrain mechanics 13. New materials and other emerging technologies including but not limited to

Important Dates:

*2nd announcement/call for papers 1st Dec. 2006,
*Deadline for submission of abstracts 1st Mar. 2007,
*Notice of acceptance 1st Jun. 2007,
*Full paper due 1st Sep. 2007,
*Early registration with payment due 1st Oct. 2007

ASABE, ICCHP International Conference on Crop Harvesting & Processing February 11-13, 2007, Louisville, Kentucky, USA

<http://www.asabe.org/meetings/Harvest2007/index.htm>

A Global Symposium on Engineering Aspects of the Harvesting, Handling, and Processing of Grains, Hay, Forage, Biomass and Any Other Crops.

An International meeting to be held in conjunction with the 2007 Agricultural Equipment Technology Conference and

followed by the National Farm Machinery Show.

3. News from Sections and Working Groups

CIGR Section VI

3rd International Symposium

“FOOD AND AGRICULTURAL PRODUCTS: PROCESSING AND INNOVATIONS”

Naples, Italy on 24-26 September, 2007

<http://www.aidic.it/3CIGR>

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 fulfill better its missions, following the successful 1st International Conference on *Bioproducts Processing and Food Safety* held in Beijing in October 2004, and the 2nd Technical Symposium on *Future of Food Engineering* held in Warsaw in April 2006, the CIGR Section VI is organizing the 3rd Technical Symposium on *Food and Agricultural Products: Processing and Innovations in Naples, Italy on 24-26 September 2007*.

The main aim of CIGR-VI is to review the latest developmental needs and challenges on the thematic areas facing the agri-food industry. The Symposium topics cover:

Topic I – FOOD

- Food composition, - Food processing,- Physical properties and structure,- Food innovations,- Food unit operations,- Food equipment, process control and automation,- Food safety

Topic II – AGRICULTURE

- Pre-harvest effects,- Post-harvest handling systems,- Non-destructive testing,- Supply chain innovation,- Tracking and traceability,

Topic III – ENVIRONMENT

- Sustainability in food production,- Upgrading of agri-food by-products,- Renewable energy sources,

key dates:

December 15th, 2006: Abstract submission,

February 15th, 2007: Notice to authors on final acceptance of abstract,

April 15th, 2007: Notice to authors on format of presentation (lecture/poster) and preliminary program,

June 15th, 2007: Full manuscript submission,

June 30th, 2007: Registration deadline for authors to have the paper included in the proceedings and the final program

*Professor Da-Wen Sun, Chair of Section VI,
dawen.sun@ucd.ie*

CIGR Section IV

29th International Symposium

“Rural Electricity and Other Energy Sources”

-Rational Use of Energy and Renewable Energy Sources in Agriculture in Connection with Environment Protection- Olsztyn-Poland 19-21 June 2007

<http://www.uwm.edu.pl/keie/strona/>

The Conference will be organized at University of Warmia and Mazury in Olsztyn (Poland). It will take place in the days 19-21st of July 2007.

IMPORTANT DATES:

-Deadline for abstract submission: **December 31st, 2006**

-Final registration: **February 28th, 2007**

-Deadline for full text submission: **April 30th, 2007**

For more information:

Prof. Janusz Piechocki, Organizing Committee,
jpt@uwm.edu.pl

Report from Section I “Land and Water Engineering”

Mission statement:

The mission of CIGR-Section I is to promote the advance of the engineering science in the area of land and water use in agriculture and in rural areas, giving special attention to the conservation of resources, the preservation and re-establishment of environmental balances, and the social and economic impacts of applications in order to realize sustainable development for both urban and rural societies.

Objectives:

The main objective of Section I as defined in the mission statement implies other objectives also contributing to the promotion of the land and water engineering science.

These are:

- Improving the knowledge on processes leading to or affecting the quality of the soil resource,
- Development and applicability of technologies for land use planning, including the forecast of land use changes, and to assess land use impacts;
- Improving the knowledge on hydrological processes as affected by land use and agricultural practices;
- Enhanced knowledge of water contamination by fertilizers and agro-chemicals, and other agricultural sources, as well as relative to the assessment of control measures;
- Improved technologies for higher performances in irrigation and drainage;
- Environmental assessment of land and water use in agriculture;
- Development of technologies, standards and monitoring systems for wastewater treatment and reuse, and use of low quality water in agriculture.

Scope:

Considering the objectives defined as above, the scope of CIGR-Section I refers to the following main subject areas:

- Soil management and soil technologies;
- Soil and water conservation and soil erosion assessment;
- Agricultural and rural watershed hydrology;
- Land use planning and assessment;
- Rural roads and related supporting infrastructures;
- Irrigation scheduling and on-farm irrigation systems;
- Surface and sub-surface drainage systems;
- Irrigation water supply, conveyance and distribution systems;
- Non-point and point source contamination assessment and control;
- Integrated soil and water use planning;
- Integrated impact assessment of land and water development projects;
- Modern technologies in land and water engineering, including modelling, information systems, remote sensing, decision support and expert systems.

The Section actually co-operates with two Working Groups:

- the Working Group on “Sustainable Land Use and Landscape Planning”, chaired by Hubert van Lier;
- the Working Group on “Water Management and Information Systems”, chaired by Jose Maria Tarjuelo.

Activities:

To achieve the objectives, several activities shall be developed by CIGR-Section I. These comprise:

- Organisation, sponsoring and co-sponsoring of seminars, workshops and conferences oriented to the objectives and scope of CIGR-Section I;
- Co-organisation of thematic special sessions, workshops or seminars on occasions of CIGR congresses;
- Collaboration in scientific committees of general themes of CIGR Congresses;
- Contributing to the e-journal of CIGR, both with papers and paper reviews, as well as to other publications of CIGR;
- Supporting the specialised working groups of CIGR of which themes fall in the domain of the Section, the respective Chair Persons becoming members of the Section Board;
- Establishing special relationships with other international societies of which field is common to that of Section I, namely the International Commission on Irrigation and Drainage and the European Society for Soil Conservation, of which representatives are ex-office members of the Board of Section I;
- Developing relations with the regional Agricultural Engineering Societies for implementing common actions; at present one Vice-President of EurAgEng is ex-office member of the Board of Section I;
- Implementing inter-sections activities;
- Promoting exchanges of scientific information with professionals, such as through the FAO Agricultural Engineering sites.

All activities referred above require improved effectiveness from contributions of the Board members but some need particular inputs from the CIGR Bureau. This is the case for:

- Better clarification of relationships between Congress organizing and scientific committees and the CIGR-Section Boards for more effectively achieving common objectives and improving the quality of Congress papers and publications;
- Re-examining the contributions of CIGR Sections to the e-journal of CIGR, probably considering specialized editorial boards relative to each Section domain, such as for the Transactions of ASAE;
- Providing better information and diffusion of the e-journal of CIGR to increase its circulation and its recognition by the scientific and engineering community;
- Promoting the links of the regional Agricultural Engineering Societies with the CIGR Sections; a representative of each of these societies should become either member or ex-office member of each Section Board for improved co-operation;

Relationships with other Societies in the fields of Land and Water

1. Co-operation with ESSC (European Society for Soil Conservation)

A closer co-operation between the European Society for Soil Conservation (ESS2C) and CIGR has been agreed on. The President of ESSC, Dr. Jose L. Rubio, is invited to participate in the CIGR Section I Board.

2. Relationships between CIGR and EurAgEng on “Land and Water”

There has been a good communication between the two organisations: Prof. D. de Wrachien, Vice-President of EurAgEng, is ex-office member of the Board of CIGR Section I, and Prof. A. Musy, Vice-Chairperson of CIGR Section I is the representative of Section I in the EurAgEng “Soil and Water Interest Group”. It is desirable that such collaboration be continued.

3. Collaboration with ICID

It has been agreed in the past that Dr. R. Ragab, Chairperson of the ICID Committee on “Sustainable Use of Natural Resources for Crop Production”, and a Chairperson of this Section Board would be mutually ex-office members of the counterpart working bodies. The Vice-Chairperson, Prof. A. Musy, represents CIGR Section I in that Committee.

Similarly Prof. H. van Lier is the representative member of CIGR in the ICID Working Group on “Integrated Land and Water Resources Management”, so to exchange information and develop co-operative activities.

4. Relationships between CIGR and NOWRA

Prof. Dr. Ted L. Loudon represents the U.S. based National Onsite Wastewater Recycling Association (NOWRA) with the aim of promoting the onsite wastewater treatment and recycling industry through education, training, communication and quality tools to support excellence in performance.

5. Relationships between CIGR and PIARC

Prof. Dr. C. F. Jaarsma represents the World Road Association (PIARC), dealing with road infrastructure planning, design, construction, maintenance and operation.

6. Relationships between CIGR and PAWEES

Prof. Dr. Yohei Sato represents the International Society of Paddy and Water Environment Engineering (PAWEES). PAWEES' mission is to dedicate to the advancement of science and technology of land and water environmental disciplines in paddy-farming, considering the paddy rice-culture (which is quite different in its nature from the upland farming) as the most important agricultural practice, especially in Asia-monsoon climate regions, in-terms of socio-economic, cultural, political and natural environment as well as symbolizing the image of harmonization of water and soil environment including many external intangible benefits ignored often in the past. PAWEES' establishment is to recognize the importance of the uniqueness of rice cultivation, the multifunctionality of rice ecosystems, efficient utilization of soil and water, and related environmental issues.

7. Relationships between CIGR and EIER-ETSHER

Prof. Dr. Amadou Hama Maiga represents the International Institute of Water and Environmental engineering (2iE), Group EIER-ETSHER (Groupe des Ecoles Inter Etats des Ingenieurs et des Techniciens Superieurs). This initiative is at the heart of a global effort to promote development and economic growth in Africa. The formation, in Africa and by Africans, of high level scientists and engineers, in keeping with the private sector and the realities of the continent, aims to supply Africa with its future scientific elite and future leaders capable both of installing economic dynamism and of bringing concrete solutions to the problems which afflict Sub-Saharan Africa.

8. Relationships with the Presidium of CIGR

Prof. Dr. Luis Santos Pereira, last Chairperson of Section I was elected as incoming President of CIGR for the period 2005-2006. A closer co-operation should be expected in the future in terms of coordination between sections.

9. Relationships between CIGR and WWC

The World Water Council is the International Water Policy Think-Tank dedicated to strengthening the world water movement for an improved management of the world's water resources and water services. Its mission is "to promote awareness, build political commitment and trigger action on critical water issues at all levels, including the highest decision-making level to facilitate the efficient conservation, protection, development, planning, management and use of water in all its dimensions on an environmentally sustainable basis for the benefit of all life on earth".

Prof. Dr. Luis Santos Pereira, incoming President of CIGR, committed himself to invite WWC Executive Director, Mr. Daniel Zimmer, to participate in the Board of CIGR Section-I as ex-office member representing the World Water Council.

10. Relationships between CIGR and ISOMUL

The International Study group Of Multiple Uses of Land (ISOMUL) was founded in 1974 and has been set up as a platform for discussions and publications on topics related to multiple use of land. Initially, these discussions and

publications were aimed at problems concerning planning for multiple land uses in western society. Today it is well understood that most of these problems are of a world wide nature.

Through the years the mission of ISOMUL has been extended, in response of an integration of new topics in planning for multiple land uses. The planning for a sustainable countryside, the relation between urban and rural areas, the restoration of nature and ecosystems and the safeguarding of our natural resources are but a few of these topics.

Prof. H. Van Lier, Chairman of ISOMUL and Member of CIGR Section-I Board, expressed his support to strengthen links between both organisations.

*Prof. Antonio Brasa Ramos
Secretary of Section I*

Overview of the work in Section II

“Farm Buildings, Equipment, Structures and Environment”

Mission statement for the section:

The mission of GIGR-Section II is to anticipate the trend in farm buildings, including animal houses, greenhouses and stores and to initiate activities that can encourage a continuous development within the area by organising working groups and symposiums. The section furthermore seeks to promote networks between the engaged parties (scientists, departments, industry, etc.).

The section is to be responsible for sessions during congresses and for evaluation of them. The section should be in close contact with activities of other international organisations (i.e. EurAgEng and ASAE) within the actual field. The section shall moreover contribute to the development of the CIGR Electronic Journal and to recommend authors for future revisions of the CIGR handbook.

Statement of scope:

The development of farm building types is strongly affected by the following parameters:

- Purpose of the building (animal housing, greenhouses, storage) and type of production as well as the market demand for the product.
- Local climate conditions and production practices.
- Animal welfare trend, forced by new animal welfare regulations, e.g. loose housing systems with more space per animal than in previous animal houses with predominantly tied animals.
- Local traditions, such as the use of wood steel plates or bricks.
- Precision animal production.
- Necessity for energy saving strategies.
- Environmental legislation concerning odour, gases and dust.
- Building regulation and safety.

One of the permanent activities of the section has been to carry out work in two working groups:

1. “Animal housing in hot climate” initiated in 2005. Present chairman: Irenilza de Alencar Nääs, Brazil. Its first meeting was held in Catania, 24-27 June 2005. The new

working group is a continuation of the former working group on "Climatization of Animal Houses", initiated in 1977.

The former Working group has since 1977 held approximately one meeting a year at different locations in Europe. From the beginning, the replacement of members was low. In the latest years, the meetings have been open to all members interested in the theme.

Reports

Climatization of Animal Houses, 1984.

Report from the Working Group. Published by the Scottish Farm Buildings Investigation Unit, Aberdeen, Scotland.

Climatization of Animal Houses, 1989 (rev. 1992).

2nd report from the Working Group. Published by the State University of Ghent, Belgium.

Aerial Environment in Animal Housing - Concentrations in and from Farm Buildings, 1994.

Report from the Working Group. Published by CEMAGREF, France.

4th Report of the Working Group on "Climatization of Animal Houses – Heat and Moisture Production on Animal and House Level", 2002.

Published by the Danish Institute of Agricultural Science, Bygholm, Denmark. www.agrsci.dk/jbt/spe

Animal Housing in Hot Climates: A multidisciplinary view

Draft report of the meeting in Catania June 2005

(Full report of this title put on the web site of General Secretariat of CIGR. URL: http://www.geocities.jp/cigr_sg/)

2. "Cattle Housing", initiated 1984. Present chairman: Joseph Flaba, Belgium.

The Working Group on Cattle Housing presented their report on "The Design of Beef Cattle Housing" at one of the CIGR/ASAE congress sessions in 2002. The report has been published by BAL Gumpenstein, Federal Research Institute for Agriculture in Alpine Regions, A8952 Irnding, Austria. The file in PDF can be down loaded from http://www.jbt.slu.se/dokument/cigr-recommendations_b_c.pdf

Meetings

Meetings: 7 and 8th July 2000 in Warwick, England, 12-14 September 2001 in Bologna, Italy, 28 July-1 August 2002 at Michigan State University, USA, 12-14 June 2003 at FAL in Braunschweig, Germany, 10-11 September 2004 in Leuven, Belgium and in Alnarp, Sweden 13-15th June 2005.

Reports:

Report of the Working Group on Cattle Housing, published by Institut für Landwirtschaftliche Bauforschung, Bundesanstalt für Landwirtschaft (FAL), Germany, 1989.

The Design of Dairy Cow Housing.

Report of CIGR Section II Working Group No. 14. Cattle Housing. Publ. ADAS Bridgets Dairy Research Centre Farm buildings Research Team, Reading, UK, 1994.

Design Recommendations of Beef Cattle Housing

Report of the CIGR Section II Working Group No. 14, Cattle housing. 2nd edition September 2004, East Lansing Michigan, USA

Overall goals and objectives

The goal is to plan and arrange activities within new areas and to follow up on the activities within developed areas by means of working groups, workshops, seminars, etc.

Planned arrangements

2006: CIGR World Congress in Bonn, Germany 3-7th September 2006

2007: First International Conference on Ammonia in Agriculture, Organized by Wageningen UR, the Netherlands and University of Kiel Germany and co-sponsored by CIGR. Site: "De Reehorst", Ede the Netherlands, 19-21 March 2007.

Appendix (Past activities)

1996: International seminar on "New Uses for Old Rural Buildings in the Context of Landscape Planning" 20-21 June, Piacenza, Italy.

1997: International symposium on "Concrete for Sustainable Agriculture", 21-24 May, Stavanger, Norway. **Ammonia and Odour Control from Animal Production Facilities**, 6-10 October, 1997, Vinkeloord, The Netherlands.

The symposium had 175 participants from 22 countries. Responsible: Jan Voermans.

1999: Dust Control in Animal Production Facilities, 30 May-2 June, 1999, Aarhus, Denmark.

The symposium had 65 participants from 25 countries. Responsible: Soeren Pedersen.

France

Furthermore, several domestic CIGR seminars have been carried out in France (French language).

- Evaluation of wastes and sustainable agriculture, Nancy, February 1996.
- Pollution control in animal housing and fertilisation, Paris, February 1996.
- Farm housing and new requests: environment and welfare of animals, Paris, November 1996.
- Quality approach, what are the options for the industry, Bordeaux, February 1997.
- Health and security of workers in agriculture, Paris, December 1997.
- Farm building architecture in respect to the environment, Angers, October 1998.
- Agricultural practices and precision, Rennes, March 2000.

2000: XIV Memorial CIGR World Congress 2000. Special session with 8 papers on Life Support System, 29 November, at the XIV Memorial CIGR World Congress 2000, Japan.

Themes:

C-1: Animal Buildings after 2010

C-2: Greenhouse and Plant Factory in the 21st century

2001: Agribuilding 2001, Unicamp, Campinas, Brazil on 3-6 September 2001. Organized by professor I. Nääs.

"Animal Welfare Considerations in Livestock Housing Systems", 22-24 October 2001, Szlarska Poreba, Poland, by Professor Tadeusz Kuczynski".

2002: "Concrete for a Sustainable Agriculture (Agro-, Aqua- and Community Applications)" held on 21-24 April in Het Pand, Ghent, Belgium (85 participants).

2002: ASAE/XV CIGR World Congress on 29 July - 1 August 2002, Chicago. CIGR Section II was responsible for organising four sessions of the joint CIGR/ASAE Congress.

2003: Ammonia and Odour Control from Animal Production Facilities. Denmark, 1- 4 July 2003. Contact: Soeren Pedersen

96 registrations were recorded and the proceedings contained 62 papers. www.agrsci.dk/jbt/spe

2004: “New Trends on Farm Buildings”, Evora, Portugal, 2-6 May 2004. Contact: Jorge Meneses

2005: “International Symposium on concrete in Agriculture”, 5-8th June 2005, Contact: Professor Elvira Sánchez Espinosa, Universidad Politécnica de Madrid, Spain

2005: Working group meeting on “**Animal housing in hot climate**”, Catania, Italy 24-27th June 2005.

Board meetings:

1994, August, at the XII CIGR World Congress, Milan, Italy.

1995, 27th February, Paris, France.

1996, 20th June, Catholic University, Piacenza, Italy.

1997, 7-19th May, Vinkeloord, The Netherlands.

1998, 2-6th February, XIII CIGR World Congress, Rabat, Marocco.

1999, 30th May, Scandinavian Congress Centre, Denmark.

2000, 28th November, XIV World Congress, Japan.

2001, 3th September, Unicamp, Campinas, Brazil

2001, 24th October, Poland

2002, 28th July, Chicago, USA

2003, 1st June, Horsens, Denmark

2004, 2nd May, Évora, Portugal

2005, 7th June, El Escorial, Spain

2006, September, Bonn, Germany

*Prof. Thomas Banhazi
Secretary of Section II*

Report on the activity of Section III of CIGR for 2004-2006

“Equipment Engineering for Plant Production”

The activity of Section III of CIGR was connected with preparing of the meetings and conferences on the topics of “agricultural engineering of plant production” in a frame of the activity of the CIGR, EAAAE and Russian Federation National Committee on Agricultural Engineering.

2004

1. In April 26-27, in Moscow was held the conference “Strategy of development of animal production, the ways of its improvement on the period of 2005-2008”. More than 80 presentations were made. There were 170 persons from Russia, Ukraine, Belarus, Kazakhstan, Poland, Hungary, Finland and Germany. Also long-distance tele-conference was held between the Moscow Agro-engineering University and University of Maryland in which more than 100 participants from Russian side and 6 from USA took a part. The topic of tele-conference was “The features of technical equipping of milk production”.

2. In May 25-26, the 5th International Conference “Microprocessor Systems in Agriculture” was held, in Plock, Poland. Institute of Mechanical Engineering of Warsaw University of Technology was the main organizer of this Event. Co-organizers, among others, were CIGR Sections 3 & 7, Institute of Production Engineering and Building Research of the Federal Research Centre (FAL) Braunschweig-Völkenrode, Germany. The purpose of this Conference was to provide a forum for the presentation and discussion of the state of art in Information technology (IT) for agriculture and related areas. Apart from updating knowledge in the area of microprocessor systems, the Conference was expected to create new ideas and possibility

of international scientific co-operation. Keynote organizer of Conference – member of Section III - Dr. Bogdan Jasinski (chairman of Scientific Committee), Prof. A. Munack represent the leadership of CIGR, also Prof. N. Sigrimis Chairman of CIGR-Section 7. In May 26 Technical Session was held where 20 papers were orally presented. Prof. A. Munack performed the first presentation on “Development of a sensor for determination of biodiesel, fossil diesel fuel and their blends”. Closing talk on “Business opportunities for researches as opened by EU programs” has been carried out on the initiative of Prof. N. Sigrimis. About 150 participants attended the Conference. Proceedings, containing 33 papers (all in English) by 65 authors from 17 foreign and 10 domestic centers, have been published as a book (ISBN 83-915188-8-4) which is available at the Institute of Mechanical Engineering in Plock.

3. In June 15-16, the conference “The precision Agriculture of plant and animal production” was held in Moscow (in VIM). More than 150 scientists from Russia, Latvia, Lithuania, Estonia, Poland, Ukraine and Belarus were participated, 60 reports were made.

4. In September 28-30, the conference “Automatization of agricultural plant and animal production” was held in tw. Uglich (the northern region of Russia) where 60 representatives from Russia, Belarus and Ukraine took a part with presentations.

5. During the first week of August, the Brazilian Society of Agricultural Engineering-SBEA organized a workshop on the topic of “Mechanization Trends in Horticultural Products”, about 32 people attended from Brazil, Chile and Spain. The major discussion was towards the new trends of minimal processing of fruits and vegetables, maintaining quality and using the adequate mechanized processes and equipment.

6. The members of Section III took a very active participation in Session 5 “Modern Agricultural Equipment and Facilities (plant and animal production) of “2004 CIGR International conference in Beijing (11-14 October, 2004, Beijing, China) also in the very fruitful “International Forum on Development strategy of Agricultural Equipment and Mechanization in less Developed Regions”.

7. In a frame of Section III activity the Russian Federation National Committee on Agricultural Engineering published the information: “International Commission of Agricultural Engineering: Framework of Organization, State and perspectives”. This publication in Russian, gives an overview of the organizational structure of CIGR and it list useful addresses of people active in CIGR and was issued by Rosinformagrotech, Moscow, 2004, 140 pp. ISBN: 5-94600-011-X.

2005

8. The IV International Scientific and Practical Conference „Ecology and Agricultural Machinery” was held in St. Petersburg (Russia) on 25-28 may, 2005. In a frame of this Conference the meeting of Leadership of CIGR, EAAAE and Board of Section III was organized for considering the problem of involving the Asia countries in CIGR activity also to promote the creation new association of CIGR in former republics of USSR. The activity of EAAAE and communication of wide amount of high professional specialist from CIS countries and East Europe in Russian language can help to promote of the activity of Russian, Belarusian and Ukrainian agricultural engineers to take part in the International meetings of EAAAE and CIGR. The

EAAAE have spread the information about CIGR and EAAAE activity among the Ministries of Agriculture of 10 CIS countries.

It will also help to use more effectively the new scientific-technical information's and to introduce the efficient achievements of science and machinery in agro-industrial complexes of our countries. It will be a good base for the development of new technology and machinery production in Russia, Belarus and Ukraine for their own market and for market of CIS and other countries.

The more detail information about this event you can see in CIGR Newsletter № 71 devoted to 75 Years of CIGR (July, 2005).

9. During last week of July the National Congress of Agricultural Engineering - SBEA was organized for discussion of the new trends on precision agriculture in order to evaluate the impacts of this new technology on Brazilian crop production.

10. The International Congress on "Efficiency and Environmental Impacts of Agricultural Mechanization" was held on 9-11 November, 2005, in Hammamet, Tunisia. This Congress, co-sponsored by CIGR Section III, was organized by Institute of Agricultural Engineering, Water and Forest Research in collaboration with the Tunisian Association of Agricultural researches. The Congress focused on strategies of agricultural mechanization, technical efficiency of machinery, environmental impact of agricultural mechanization, etc.

2006

11. During 9th International Scientific and Practical Conference „Scientific and technical progress in animal production" which was held on 19 April in Moscow, (Russia), the new composition of National Committee on Agricultural Engineering of Russian Federation (NCAE RF) was reelected. The new President of NCAE RF was elected Dr. Leonid Orcik (Director of Department of Scientific-Technological Politics and Education of Ministry of Agriculture of Russian Federation), academician Leonid Kormanovsky was reelected as the Vice-President (He is also the President of EAAAE) academician Yury Lachuga was elected as a second Vice-President (He is a Vice-President of Russian Academy of Agricultural Sciences), Oleg Marchenko was reelected as a Secretary-General of NCAE RF (He is also the Secretary-General of EAAAE).

In the Conference more than 170 scientists, engineers and specialists from 17 scientific organizations and 15 Agricultural Engineers Institutes from 25 region of Russia also from Belarus, Ukraine and Poland took a participation.

12. The new composition of the Board of Technical Section III of CIGR was prepared for reelection during of CIGR General Assembly (annex 1).

30.08.2006

*The Chairman of Section III of CIGR,
Secretary-General of EAAAE and
Russian Federation National Committee
on Agricultural Engineering
Prof.O.S .Marchenko*

Objectives of Section VI Activities "Postharvest Technology and Process Engineering"

Mission statement

CIGR Section VI deals with the engineering principles and technologies in post-harvest and processing of agrifood products. It is devoted to follow the trends, promote the advancement and enhance the dissemination and the transfer of technology in post-harvest and processing at a global scale. Its mission is:

- to bring together all those that are working in post-harvest and processing;
- to enhance international experiences, exchange and co-operation, for the advancement of knowledge in this area, world-wide;
- to stimulate participation in CIGR activities, especially Congresses;
- to define the areas that are in need of research and /or of transfer of technology;
- to advance in knowledge for the assurance of safety of all products for human consumption.

Agri-food processing Engineering has an increasing importance, with rapid development during the past decade. A fundamental basis of this area of knowledge is to bring together physical sciences with knowledge on product physiology and properties, in order to maintain quality and to develop new techniques for quality recognition. There has been a great development of technical improvements in post-production practices. Although yields of many products and field production technologies have made significant advances, losses due to lack of appropriate storage and processing facilities and technologies have increased globally.

On the other hand, quality and safety of the products has evolved into a high priority in many markets. This development has taken place mainly in the advancement of the traditional sciences and technologies, and also in a broadening in areas of knowledge that have been introduced into agrifood processing, especially new technologies for sensing and computing.

The different areas covered in Section VI are defined with the following keywords:

- handling;
- drying and other processing;
- storage and transportation;
- quality and safety;
- sustainability, of;
 - grains,
 - root crops,
 - fruits and vegetables,
 - meat, poultry and fish,
 - milk and dairy products,
 - ready meals,
 - bakery products,
 - egg and egg products
- In all these topics, Agrifood Processing Engineering covers;
 - the properties of the products,
 - the design and control of the equipment,
 - the design and control of the processes, and
 - the engineering design and implementation of the plants.

Study Topics related to these areas are at present:

- Physical properties of materials;

- Non-destructive sensors, sensing technologies, automation of processes;
- Storage, product and quality losses, relationship to environmental conditions, especially in the tropics and sub-tropics;
- Food safety, security and defense;
- Decision-aid tools, simulation and modeling of processes;
- Innovative and emerging food processing technologies;
- Shipping and transportation of food commodities;
- Packaging;
- Process management;
- Supply chain;
- Wastes (from food processing), treatment and management;
- Information technologies, data availability over internet, expert systems

Programmed activities

Besides activities at the CIGR Congresses, regular CIGR Section VI International Symposiums have been organized as detailed below:

- 1st International Symposium on Bioproducts Processing and Food Safety, 11-14 October 2004, Beijing, China;
- 2nd International Symposium on Future of Food Engineering, 26-28 April 2006, Warsaw, Poland
- 3rd International Symposium, September 2007, Naples, Italy
- 4th International Symposium, 2008, Brazil

*Professor Da-Wen Sun, Chair of Section VI,
dawen.sun@ucd.ie*

CIGR Section VII “Information Systems” Chair’s Report 2000-2006

Summary Report
for Bonn Meeting, Sept 3, 2006-08-31

Timed events and actions

1. Year 2000, Tsukuba CIGR Congress

Formation of section VII on Information Systems:

Next, several letters were forwarded to section board and other sections and affiliated societies in trying to Organize the section and distribute roles. 2001, Representation of section VII in International Conference IV MICROPROCESSOR SYSTEMS I AGRICULTURE - Plock, Poland, 28-29/05/2001

2. 2002 Chicago and Section Board meeting

First effort to Organize and assign roles:

There we have had a lively discussion and contributions to organizing workgroups (sincere thanks to contributions of Prof van Straten and RMCloaire).

The WCCA issue was brought up and we decided to have a thorough discussion within the section board and with ASAE and EurAgEng. Several emails were exchanged and with WCCA initiators (Prof Zazueta and Prof Schiefer).

3. 2003 Las Vegas meeting

Section Board meeting: Have discussed with CIGR presidium and ASAE and EurAgEng reps the issue on cooperation with WCCA. My option was that CIGR must first discuss the subject with the ASAE and EurAgEng and

come to a common decision regarding WCCA. I always supported this procedure, and still do, as there is:

1. Strong fields on IT (including PA) in both societies.
2. The major portion of EFITA and WCCA conference papers are on the PA and the Engineering aspects of IT applications, dominant subjects of the Engineering societies.

If a common agreement with the two societies was reached, a stronger consortium will be instituted to discuss conditions for the cooperation with EFITA, AFITA etc. into WCCA.

2003 Representation of section VII in ITAFE Oct 2003-Turkey

2004 Representation of section VII in May 2004 V International Conference on “Microprocessor Systems in Agriculture”, Plock Poland.

4. 2004 Beijing World CIGR Congress

Active participation of section VII and 1st section VII Symposium with the enormous interest and help of Prof Wang.

Section Board meeting

Main decision: Participate to WCCA network and start discussions.

Change of some inactive members as per attached table.

2005 May 28-19. Participation in Saint Petersburg TB meeting.

5. 2005 July Portugal EFITA/WCCA conference

My participation in this Conference (very well organized by prof Boaventura) was to discuss the procedures of WCCA.

WCCA meeting

Participants. EFITA past and new president, AFITA (Prof Ninomiya), CIGR section VII (Nick Sigrimis, Prof Fedro Zazueta, Prof Schiefer and some other individuals).

It was announced that the 3 WCCA initiators (Zazueta, Schiefer, Ninomiya) had pre-decided (in some meeting) that the 4th WCCA conference July 2006 will be held in Florida. Therefore the meeting had no time but to discuss the preparation of the 4th WCCA.

*Past Chair of Section VII
Prof. Nick Sigrimis*

CIGR New Working Group “Earth Observation for Land and Water Engineering”

STARTING REPORT

On Sunday, 3rd September 2006, in coincidence with the World Congress of the International Commission of Agricultural Engineering held in Bonn, Germany, a meeting was held to propose and decide about the formation of a new Working Group on remote sensing for land and water management. This initiative has been taken by an international group of researchers actively involved within the CIGR in the field of remote sensing.

The convener of the meeting was Prof. Guido D’Urso of the University of Napoli Federico II. During the meeting the following issues were discussed and formalized:

- 1 – Define the scope of the Working Group
- 2 – Decide appropriate name – Elaborate a Plan of activities
- 4 – Select the WG Chairpersons
- 5 – Select the preferential Section Board to be related

About 20 participants were attending the meeting from Europe, U.S.A., South America and Asia. Among the presents, the President of CIGR, Prof. Luis Santos Pereira, the President of EurAgEng, Prof. Daniele De Wrachien, the President of the Section 1 of CIGR "Land and Water Engineering" Prof. José Tarjuelo, Members of the executive committee of CIGR and of the Section 1 of CIGR.

1 – Scope of the Working Group "Remote Sensing for Water and Land Management"

Information products based on data from satellite remote sensing - Earth Observation (E.O.) - are widely used in research and applications in agriculture for improving water and land resources management. E.O. based products have shown their usefulness and economic effectiveness to monitor crop status, consumptive water use, predict crop yield, detect disease and insect infestations. Techniques for E.O. data elaboration and product generation are mature enough to develop operational services to support farming practices.

Within the main scope of contributing to a sustainable use of water and land resources in agriculture, this Working Group aims at:

- the improvement of knowledge and awareness of opportunities for the utilisation of E.O. data
- the development and application of E.O. technologies including computational processes
- the promotion of new E.O. sensors and platforms to best serve food production and agricultural needs
- the definition of standards and monitoring systems based on E.O.
- the summary of information to foster coordination and integration of public and commercial EO systems

Considering the scope defined as above, this Working Group refers to the following main subject areas: Quantifying water consumption by vegetation

- Irrigation water supply and scheduling support
- Land use planning and assessment
- Agricultural and rural watershed hydrology
- Integrated soil and water use planning
- Land use monitoring and change detection
- Water-bodies monitoring and management
- Crop mapping
- Precision farming
- Monitoring of canopy development and crop phenology
- Crop health related to water and nutrient stress
- Yield monitoring and forecasting
- Integrated impact assessment of land and water development projects
- Innovative technologies in land and water engineering: modelling, GIS and Decision Support Systems.

2 – WG Name:

During the discussion, several names have been proposed, i.e. "Remote Sensing for Water and Land Management"; "Earth Observation for Water, Land and Crop Management" and "Earth Observation for Water and Land Resources". It was decided to consider "Earth Observation" in substitution of "remote sensing" and to introduce the word "Engineering". The final name agreed by all the participants was "Earth Observation for Land and Water Engineering".

3 – Plan of activities

The following activities were proposed:

- Preparation and Distribution of a White-Paper on current

use and critical needs for E.O. data in land and water management and recommendations for future E.O. systems

- Links with other Organisations and Societies dealing with remote sensing applications and co-sponsorship of conferences, workshops and publications
- Set up of an electronic bulletin and/or Web page with the aim of disseminating information on events in the field of E.O. applications in agriculture, new initiatives and forum

5 –WG Chairpersons

The participants to the meeting appointed unanimously Prof. Guido D'Urso as WG Chairman. His contact is the following:

Dept. Agricultural Engineering and Agronomy –
University of Naples "Federico II"

Via Università 100, I-80055 Portici (Naples) ITALY
E-mail: durso@unina.it

6 –Section Board

Considering the scope of this WG, "Section I: Land and Water Engineering" was indicated as preferential.

The meeting was closed at 18.00 hrs. Bonn, Sept. 3rd, 2006

*Chair of WG of
"Remote Sensing for Water and Land Management"
Prof. Ing. Guido D'Urso*

Minutes of Launching Meeting of New Working Group "Rural Development and the Preservation of Cultural Heritages"

The launching meeting has been held on 3rd of September, University Building, Room 4. Start at 15,15, finished at 16,30. Present about 25 persons from: Bulgaria, Croatia, France, Iran, Italy, Morocco Romania, Serbia, Spain, Sweden, and Turkey.

Following has been discussed and concluded:

1. Foundation of Working Group

After presentation of objectives and activities of Working Group, decision was taken to found this WG.

2. Scope of Working Group

The scope has been discussed, and it was found out that the problems of rural areas exist in almost all countries, either developed, developing or under developed. The background is defended in appendix 1 and 2.

3. The name of Working Group

The main doubt was if the agricultural engineering should focus cultural heritages. After consequent and circumstantial discussion it was concluded to accept proposed name. Explanation: 1. farming procedure is also part of culture, 2. this is multidisciplinary task and will be realized in cooperation with other professions. The name of Working Group is: **Rural Development and the Preservation of Cultural Heritages.**

4. Plan of Activities

There are two activities planned for next period:

1. To make inventory of rural areas problems around the world. The inquiry form will be prepared and sent to colleagues in all countries members of CIGR. To be finished up to the end of 2007.

2. It is planned Second Round Table of AESEE (Association of Agricultural Engineering in Southeastern Europe): Agricultural Engineering and its Role in Development of Rural Areas. It is planned for second half of September 2007. Report will be presented in CIGR Newsletter.

5. Membership

The membership of the group is open and free. The foundation will be published in CIGR Newsletter, and every interested person can apply for membership.

6. Chair person

As the chair person Prof. Dr. Kamil Okyay Sindir has been elected. The vice chair is Prof. Dr. Victor Ros, Romania, and Secretary Prof. Dr. Milan Djevic, Serbia.

7. Related CIGR Section

It has been considered which Section is most suitable to be linked. There are at least three of them. It has been not concluded which one will be joined. This should decide Chairman after consultancy with section chairs.

The General Secretary of CIGR will be informed about all WG activities. Significant events and results will be published in CIGR Newsletter.

October 2006.

*Prof. Dr. Milan Martinov, Faculty of Technical Sciences,
University of Novi Sad, Novi Sad, Serbia*

mmartog@uns.ns.ac.yu

*Prof. Dr. Kamil Okyay Sindir, Faculty of Agriculture,
Ege University, Izmir, Turkey*

kamil.sindir@ege.ed.tr

4. CIGR Sponsored Activities

Preliminary Announcement of Green SYS 2007 International Symposium on “High Technology for Greenhouse System Management” October 4-6, 2007, Naples, Italy

The symposium is organized by Department of Agricultural Engineering and Agronomy (DIAAT) University of Naples Federico II, Italy and Department of Engineering and

Management of Agricultural, Livestock and Forest Systems (PROGESA) University of Bari, Italy

Contact to: Prof. Stefania De Pascale: depascal@unina.it,
Prof. Giacomo Scarascia: scarasci@agr.uniba.it

Preliminary Interest Areas

- Greenhouse design
- Greenhouse management
- Greenhouse control
- Protected cultivation and environment
- Industry Needs
- Education and Training

5. CIGR Co-Sponsored Activities

International Conference From Invention and Development to Product from Research Institutes to the Water Industry November 28-30, 2006, Israel

<http://www.ziwr.co.il>

Sessions will take place at the Zuckerman Institute for Water Research (ZIWR), The Jacob Blaustein Institutes for Desert Research (BIDR), on the Sede Boqer campus of Ben-Gurion University of the Negev (BGU). Midreshet Ben-Gurion, Israel.

Introduction Advances in technological development and elevated standards of living in many areas around the world will dramatically increase the demand for additional water of high quality. Available natural sources of water for future development are scarce and limited to a few regions on the globe. As a result, scientists the world over are constantly looking for ways to increase the availability of this most precious resource, both in terms of quantity and quality.

The main objective of this conference is to bridge the gap between academic research institutions and various branches of industry involved in water technology and innovation.

Specific objectives include:

- Presenting examples of novel innovation with a potential

applicable to the water industry.

- How to turn a novel idea into a final product.
- How to bring about a working cooperation between academia and industry in order to develop new products.
- Creating avenues for identifying new developments in water technology.

Themes

- Water Systems Management
- Advanced processes for municipal and industrial sewage treatment
- Membrane techniques in water treatment
- Advanced irrigation systems
- Polluted groundwater – advanced methods for monitoring and remediation
- The use of marginal water – treatment and recycling
- Water - safety and security
- The role of the government in promoting the transfer of technologies from Academia to Industry.

Conference Secretariat:

Yael Furman & Shany Shirman

Zuckerman Institute for Water Research - ZIWR

Jacob Blaustein Institutes for Desert Research, Ben Gurion University of the Negev, Sede Boqer Campus, 84990, ISRAEL, Phone: +972-8-6596984, + 972-8-6596714,

Fax: +972-8-6596889, E-mail: ziwr@bgu.ac.il

First International Conference on Ammonia in Agriculture

19-21 March 2007, Netherlands

<http://www.firstammoniaconference.wur.nl/>

On 19, 20 and 21 March 2007, Wageningen UR (The Netherlands) and the University of Kiel (Germany) organize the International Conference on Ammonia in Agriculture which is co-sponsored by CIGR. Policy, Science, Control and Implementation. It addresses ammonia in agriculture in a broad sense; from the policy on ammonia inventory and

abatement in different world regions to measuring methods and mitigation strategies.

The Conference is held in Conference Centre De Reehorst, Ede, The Netherlands.

Key dates:

deadline for submission of abstracts: 20 October 2006

early bird registration starts 20 October 2006

notification of acceptance: 15 November 2006

deadline for paper: 8 January 2007

notification paper: 15 February 2007

deadline paper: 15 March 2007

6. Other Activities

The Fourth Annual World Congress on Industrial Biotechnology and Bioprocessing

March 21 - 24, 2007, Orlando, Florida

<http://www.bio.org/worldcongress/>

The World Congress on Industrial Biotechnology and Bioprocessing is the premiere gathering of thought leaders, investors, researchers and business executives in industrial biotechnology, bioenergy and bioprocessing. This year's conference will present the latest issues, innovations, market achievements and policy developments in the industrial and environmental applications of biotechnology. It will also provide exceptional networking and business development opportunities. The goal of this event is to attract participants with a wide variety of perspectives on industrial biotech and to speed technology transfer and the commercialization of this powerful biotechnology. This truly international conference will bring together academic, government, NGO, and business leaders from around the globe for a dynamic three day event.

World Sustainable Energy Days 2007

28 February - 2 March 2007 in Wels/Austria

<http://www.wsed.at>

In 2006, more than 930 decision makers and experts from 56 countries participated in the World Sustainable Energy Days conference, you can find a review & pictures & a video of this event on our website. On the conference website www.wsed.at - which will be regularly up-dated in the coming months - an online registration form is available.

Mark the conference date - 28 February - 2 March 2007 - in your agenda if you are interested in discussing the most recent trends in energy strategies and in gaining an insight in technological and economic innovation!

Subjects:

- energy efficiency in buildings, industry and transport
- renewable energy sources
- pellets
- "Energy Future 2030"

We would be pleased to welcome you to these events to Austria and remain at your disposal for any further question (conference office T+43-732-7720-14386, e-Mail: office@esv.or.at)

*Christiane Egger
Conference Director*

3rd International Symposium on Management, Engineering and Informatics (MEI 2007)

Orlando, Florida, USA, from July 8-11, 2007

<http://www.iiis-cyber.org/mei2007>

We invite you to submit a paper/abstract to The 3rd International Symposium on Management, Engineering and Informatics (MEI 2007) in the Context of The 11th World Multi-conference on Systemics, Cybernetics and Informatics (WMSCI 2007) (<http://www.iiis-cyber.org/mei2007>). It will take place in Orlando, Florida, USA, from July 8-11, 2007.

Also, we would like to invite you to organize an invited session related to a topic of your research interest. If you are interested in organizing an invited session, please, fill out the respective form provided in the conference web page. We will send you a password, so you can include and modify papers in your invited session.

More details about the reviewing process, organizing invited sessions and submissions deadlines can be found at our web site. (<http://www.iiis-cyber.org/mei2007>)

*Professor C. Dale Zinn
MEI 2007 Program Committee Chair*

21st Pacific Science Congress

Diversity and Change: Challenges and Opportunities For Managing Natural and Social Systems in Asia-Pacific

June 12-18, 2007, Okinawa, Japan

<http://www.psc21.net/>

Beginning with the first meeting in Honolulu in 1920, Pacific Science Congresses have been held every four years in a variety of venues around the Asia-Pacific basin.

The Pacific Science Association invites you to attend the 21st

Pacific Science Congress in Okinawa, Japan, from the 12th to the 18th of June 2007. The congress provides an interdisciplinary platform for scientists from the region and beyond to discuss and review common concerns and priorities; brings together scientists from more remote states; and serves as a catalyst and venue for scientific and scholarly

collaboration to announce and establish new research initiatives. The PSA focuses on those countries bordering the Pacific Ocean and the islands of the Pacific basin.

The deadline for submission of symposium proposals is postponed until April 15(Sat.), 2006.

7.Publications

Agricultural Engineering International—The CIGR Ejournal <http://cigr-ejournal.tamu.edu>

Editor-in-Chief—Dr Lingjuan Wang
North Carolina State University, USA
Coordinator—Dr Bill Stout
Texas A&M university, USA

The CIGR electronic journal is now in its eighth 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 website---cigr-ejournal.tamu.edu Here is a summary of the number of papers published to date:

Peer reviewed original research papers (total-243):

Vol. I(1999)----7, Vol. II(2001)----10, Vol. III(2000)---3,
Vol. IV(2002)---25, Vol. V(2003)---29, Vol. VI(2004)---44,
Vol. VII(2005)-53, Vol. VIII(2006)—54,

Invited overview papers (total-95):

Vol. I----2, Vol. II----4, Vol. III----8, Vol. IV---20,
Vol. V----24, Vol. VI----6, Vol. VII----10, Vol. VIII--21

As you might expect the published papers come from a broad international base: (48 countries).

Peer reviewed original research papers:

Australia-2, Belgium-3, Botswana-1, Brazil-6, Canada-9, Cameroon-3, China-5, Czech Republic-3, Denmark-11, Estonia-3, Ethiopia-1, France-1, Germany-14, Greece-6, India-11, Indonesia-2, Ireland-1, Iran-1, Israel-2, Italy-8, Japan-28, Lebanon-2, Lithuania-3, Mexico-2, Netherlands-3, Nigeria-23, Poland-6, Portugal-6, Spain-6, Sweden-4, Tanzania-1, Thailand-6, Turkey-3, United Arab Emirates-1, USA-19.

Invited overview papers(Including Club of Bologna keynote presentations):

Australia-1, Brazil-3, Canada-2, China-4, Denmark-2, Egypt-1, FAO-3, France-1, Germany-12, Greece-1, India-4, Indonesia-1, Israel-1, Italy-16, Japan-4, Kenya-1, Mexico-1, Morocco-1, Netherlands-3, Nigeria-9, Oman-3, Palestine-1, Poland-1, Portugal-1, Russia-1, Swaziland-1, Taiwan-1, Thailand-2, UK-3, USA-18, Yugoslavia-1, 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. The website has all the details regarding manuscript format, submission instructions, etc. If you have any questions, please send me an email at stout@tamu.edu

Dr. B.A. Stout, Coordinator, August 14, 2006

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

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