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75 Years of CIGR

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75 Years of CIGR: 1930 – 2005

A Short History of CIGR

On August 5, 2005, it will be seventy-five years to the day that CIGR was founded in the Academic Hall of the University of Liège. On occasion of this 75th anniversary, the next issues of the CIGR Newsletter will contain a two-instalment sketch of the development of CIGR from its foundation up to the present.

Part 1

Background: Agricultural Engineering in the 1930s

In the 1930s, Agricultural Engineering generally played a marginal role in Europe, although this varied from country to country. Various new machines had been developed or improved for agricultural use in the course of the preceding century, but despite the importance of agricultural engineering for the primary sector, development was still slow and limited in scope. The design of agricultural machines and buildings was based on skills and accumulated experience rather than co-ordinated scientific research. The same applies to post-harvesting technologies and greenhouses as well as ergonomics, safety and work organisation. Environmental protection and sustainable land development did not become subjects of scientific research until much later.

Foundation of CIGR

To foster the international co-operation of researchers and to combine it with a concern for positive physical work conditions in farming and in rural activities, the International Commission of Agricultural Engineering was founded in 1930 in Liège, Belgium, by a small group of farsighted European agricultural engineering scientists from Belgium, France, Germany, The Netherlands, Spain, Switzerland, and the UK. According to the report of this "Congrès International du Génie Rural", the Constitution of the International Commission of Agricultural Engineering was declared effective on August 5, 1930 at 11:30 A.M. in the Academic Hall of the University of Liège.

In the Founding Declaration of 1930 it says: Considering the necessity of a coordination of the works or applications in the technical sciences, building arts and mechanics in agriculture, the whole designated by agricultural engineering, the International Congress of Agricultural Engineering decides to found the INTERNATIONAL COMMISSION OF AGRICULTURAL ENGINEERING, abbreviated CIGR, independent from all other similar institutions, disposed to work in close collaboration with the existing International Institute of Agriculture in Rome and with the International Labor Organization in Geneva.

The main role of CIGR was summarized in three words: liaison, coordination and initiative.

On this basis, the founding congress made a first attempt to develop an agricultural engineering curriculum to combine research and activities from various branches of study in the interest of further international progress. It defined areas on which the work of CIGR should concentrate in its four Technical Sections:

- Section I: land reclamation with: agricultural water management (drainage, irrigation, sanitation, embanking), land management, land clearing
- Section II: farm buildings
- Section III: mechanics with: farm machinery, mechanized farm operations, electricity
- Section IV: scientific work organization

The Early Years

The scientific problems in the scope of agricultural engineering were few and relatively simple, and the main field of research in agricultural engineering in the 1930s was tool implementation in agriculture. Farm machinery, adapted mechanics, machine testing and standardization became main subjects while scientific labour organization strongly accentuated attitude, living and health conditions in all human work.

When the role of the CIGR was defined as liaison, coordination and initiative, this was in reaction to a number of shortcomings and challenges which agricultural engineering had to face at the time. The principle of liaison was a reaction to the fact that most specialists still ignored their neighbours' work and cultivated a lack of trust in other professionals. A closer coordination of research and cooperation in all projects was necessary to highlight the importance of the agricultural engineering discipline within the specific education programs of agronomists. CIGR decided to act and to take the initiative in these areas. A reciprocal exchange of information and of practical and experimental results had to be encouraged and realized among agricultural engineers worldwide. Society development needed co-ordination and co-operation.

Although the activities and objectives of CIGR were relatively circumscribed at the time, the organisation of international agricultural engineering congresses at intervals of five years was a basis for the development of a strong international community of agricultural engineers. Five years after the Foundation Congress in 1930, the II CIGR World Congress in 1935 in Madrid, Spain, discussed subjects from the four areas defined in 1930. Attracting a few hundred scientists and technicians, it was the second in a series of regular CIGR World Congresses which continues to this day, although World War II cancelled the III CIGR World Congress scheduled to take place in 1940 in Italy.

Reorganisation after 1945

After the human and material catastrophe of the World War II, agriculture was only one area in which an immense rebuilding effort was necessary. Demography was seriously affected, distorted economies had to be reoriented, and societies had to sprout again. Farm materials and equipment had to be rebuilt, renewed or even created. It was necessary...
to provide for the population's needs as fast as possible. Although all contacts between CIGR members had been cut off since 1939, CIGR reorganised soon after the war. The first post-war CIGR International Congress was held in Rome in 1951, but the documentation of administrative meetings of CIGR reaches back at least to October 1946. From the end of the 50s, once the problems of the post-war period were concluded, the sector experienced considerable and unexpected growth which led to a gradual upturn in CIGR’s membership which made it necessary to modify and expand the underlying structure. CIGR needed to become a truly international association, with a progressive and greater involvement of extra-European countries from all continents.

Despite the dawning of the Cold War, CIGR meetings retained their international orientation and provided favourable circumstances for meetings of agricultural engineers from East and West. It was not easy to overcome administrative interference, but CIGR meetings were central occasions for scientific, technical and personal exchanges between agricultural engineers from East and West. The contribution of CIGR during that difficult period to professional liaison and the pursuit of common interests despite ideological differences must be stressed.

Until the 1970s, CIGR remained mostly a European organisation, which is reflected in the locales of the World Congresses. The CIGR World Congress in East Lansing, USA 1979, however, foretold the truly international orientation that CIGR would develop after 1989.

International Orientation Strengthened

The dismantling of the Berlin wall in 1989 also marked a watershed in the history of CIGR. Although there had been a clear trend towards even closer exchanges with regional associations and national societies in the world for more than a decade, CIGR has since 1989 become a worldwide platform with a stronger international orientation than ever as new national and regional societies have joined efforts within CIGR.

New Statutes

Despite difficulties, misunderstandings, and even some resentment, CIGR successfully adapted its structure to the intensified international contacts which have developed over the past decade. On 1 January 1994, a new set of CIGR statutes became effective in which the aims of CIGR were reformulated and expanded:

- support all actions in Agricultural Engineering
- promote the creation and the activities of National Associations of Agricultural Engineering
- facilitate communication between specialists of the sector
- promote the art, science and technology in the various domains of Agricultural Engineering
- encourage and coordinate researches in the above fields
- foster and improve permanent teaching and information
- organize regular meetings in the domain
- set up a documentation service and assist in publishing information useful for the members

With the new statutes, CIGR has found a balance between, on the one hand, playing a strategic role of technical and scientific support at world level and, on the other hand, supporting, without infringement of competencies, the activities of its regional and national Agricultural Engineering associates. As part of this mutually beneficial solution in the service of co-operation and sustained development, each new associate of CIGR has been required to fully and completely endorse the basic objectives of CIGR.

(These basic objectives remained unchanged in the slightly revised version of the statutes which became effective on 1 January 2001.)

To be continued in the October issue.

CIGR NEWS

Joint meeting of CIGR EB and TB in Saint Petersburg, Russia on 28 May 2005

This joint meeting of the CIGR Executive Board and Technical Board was held on Saturday, 28 May 2005, at the North-West Research Institute of Agricultural Engineering and Electrification in Saint Petersburg-Pushkin, Russia. It was attended by the members of the CIGR presidium as well as Honorary President Prof. Bill Stout (USA), Mr Yoshihise Kishida (Japan), Prof. Daniele DeWrachien (Italy), Prof. Yohei Sato (Japan), Prof. Oleg Marchenko (Russia), Prof. Nick Sigrimis (Greece) and by the invited guests I. Popov, G. Kormanovski, and Wang Maohua.

In his position as chair of the Awards Committee, Past President Axel Munack outlined the preparations of the awards ceremony to be held at the World Congress in Bonn in September 2006. The CIGR Section Boards are called upon to nominate awardees for Merit Awards, Fellowships, and for Honorary Membership in CIGR.

Past President Munack also reported briefly on the state of the Club of Bologna.

With regard to the CIGR Handbook, Past President Axel Munack reported that 22 out of 35 articles for Volume VI had been finalised whereas the remaining articles were still under review. The publication of Volume VI, which is prepared in cooperation with ASAE, is scheduled for summer 2006.

Volumes I and III of the CIGR Handbook are now out of stock, whereas the Chinese edition of Volume III has just been finalised and while the remaining volumes are being translated.
In addition to the English CIGR Newsletter and the French Bulletin de la CIGR, the membership quarterly of CIGR is now published in Arabic and Chinese translations as well; a Russian version is hoped to complete the picture soon. With the approval of the governing bodies of CIGR, the new editor-in-chief of the CIGR Ejournal is Dr Ling Wang from the University of North Carolina at Chapel Hill. Honorary President Bill Stout, the E-journal co-ordinator, reported on the latest developments concerning the CIGR E-Journal. 149 peer-reviewed papers from 41 countries had been published as of May 2005. Approval by ISI is still in progress; a decision will be taken at the end of 2005. The list of editorial members will be updated. Section chairs or delegates will henceforth be listed as Associate Editors.

The President asked the section chairs to revise the statements concerning their sections' respective statements on their missions, objectives and scope so that the information published on the internet can be updated. Moreover, the President asked the Section chairs to report on any difficulties with implementing the regulations concerning the tasks and commitments of the Technical Sections. As the Section chairs present had nothing to report, it was concluded that the regulations had been generally accepted and implemented. In circulation since April 2005, these rules had been discussed, modified and approved in the Presidium, Executive Board and Technical Board meetings held in Beijing in October 2004.

Activities of the technical Sections were reported on by the Section chairs present or by their representatives: For Section I, Prof. Sato talked about four upcoming events between July 2005 and May 2006. On behalf of Section II, Secretary-General Schulze Lammers submitted written information on activities in the planning stage or proposed for the near future. Prof. Marchenko reported on activities of Section III. Prof. Stout, on behalf of Prof. Kamaruddin of Section IV, reported that Professor Kamaruddin was planning a conference in Indonesia on renewable energy. The Secretary-General drew attention to another Section IV event at Ege University (Turkey) in September 2005. Moreover, he reported that Section IV was planning an International Conference. Section V, which had not sent a report, will hold the XXXI CIOSTA-CIGR V Congress in Hohenheim, Germany, from 19 to 21 September 2005. There was no report from Section VI, but a leaflet about a forthcoming event planned for 2006 was discussed at some length. Prof. Sigrimis talked about an upcoming Section VII event in Vila Real (Portugal) from 25 to 28 July 2005. The official opening of the CIGR General Secretariat in Japan will be attended by members of the Presidium in late March or early April 2006.

Followings a recommendation by the Presidium, a decision was taken to use the 2006 World Congress to promote CIGR membership in Arabic countries. To this end, Professor Bartali and the local organiser will organise a session especially for Arabic delegates.

To encourage national societies rather than individuals to join CIGR, a decision was taken at President Pereira's initiative to raise the membership fees for individual members to US$ 230, which is the equivalent of the fees paid by a national society from a developing country with the minimum number of 10 members.

The next Presidium meeting will be held on occasion of the next Club of Bologna meeting in November 2005. The next TB and EB meetings will be held in September 2006 in Bonn on occasion of the World Congress.

Prof. P. Schulze Lammers
CIGR Secretary-General

NEWS FROM NATIONAL AND REGIONAL SOCIETIES

Report on the IV International Scientific and Practical Conference
“Ecology and Agricultural Machinery”
in St. Petersburg, Russia

Organized by the Northwest Research Institute of Agricultural Engineering (SZNIIMESH) under the aegis of the Russian Academy of Agricultural Sciences and EAAAE, this conference was held in St. Petersburg from 25 to 28 May 2005.

The opening ceremonies and the plenary session of the conference were attended by the leadership of CIGR, namely by Luis Santos Pereira (President), Axel Munack (Past President), Bill Stout and El Houssine Bartali (Honorary Presidents), Peter Schulze Lammers (Secretary-General) and by the leadership of EAAAE.

The meetings of the CIGR Presidium and the Executive and Technical Board were attended by Y. Kishida (Japan), Y. Sato (Japan), O. Marchenko (Russia), N. Sigrimis (Greece), D. de Wrachien (Italy), Wang Maohua (China) and by the invited guests L. Kormanovsky and V. Popov (Russia).

During these meetings, current issues, activities of sections and member societies as well as the preparations for the next CIGR World Congress in 2006, in Bonn, Germany, were discussed.

The conference was attended by about 175 people from 16 European, Asian and American countries (CIS states, Baltic states, Poland, Finland, Germany, China, USA, Saudi Arabia, Japan, Thailand, Italy, Portugal). Almost 80 presentations were held in the four sessions of the conference.

The conclusions of the conference include
recommendations for the coordination of joint research on problems relative to the protection of the environment, the development of Agricultural Engineering at different agro-landscapes systems, conservation of natural resources, precision agriculture systems, reduction of waste in agricultural plant and animal production.

Taking into account the historical importance of St. Petersburg in the conception and formation of research on soil mechanics in Russia, the participants of the IV International Conference on “Ecology and Agricultural Machinery” decided to organize another international conference in St. Petersburg in 2007, to commemorate 100 years of agro-engineering sciences in Russia.

L.P. Kormanovsky
President of EAAAE
Vice-President of NCAE RF
O. S. Marchenko
Secretary-General of EAAAE
Chairman of CIGR Section III

Joint Meeting of CIGR and EAAAE
at St. Petersburg, Russia
25-28 May 2005

For the first time, on the eve of 75th anniversary of the foundation of CIGR, the annual meetings of the governing bodies of CIGR (Presidium, Executive Board and Technical Board) were held on occasion of a conference of the Euro-Asia Association of Agricultural Engineering (EAAAE). Moreover, a joint meeting of CIGR and EAAAE was held to review the activities of EAAAE from 2001 and 2005, to support the development of this Euro-Asian regional association, and to develop the cooperation of CIGR with engineers and scientists from CIS countries; the promotion of national associations of agricultural engineers in these countries was another main objective.

The meeting was held in St. Petersburg from 25 to 28 May 2005 during the IV International scientific and practical conference “Ecology and Agricultural Machinery”. In the joint meeting of the CIGR leadership with EAAAE (with the national associations of Russia, Belarus and Ukraine), the President of EAAAE and Vice-President of the Russian Federation National Committee (NCAE RF), L. P. Kormanovsky, reported on the activities of EAAAE between 2001 and 2005. The vice-presidents of EAAAE, V. D. Popov (Russia), V. I. Rusan (Belarus), and V. V. Ivanishin (Ukraine) presented the results of the activities of the national associations.

The Secretary-General of EAAAE, O. S. Marchenko, addressed the prospects for EAAAE development and the problems of founding new associations in CIS countries. The meeting and discussions were attended by the Vice-President of the Russian Academy of Agricultural Sciences, Y. F. Lachuga, and several active members of EAAAE, namely B. A. Runov, D. S. Strebkov, N. V. Krasnoschekov, A. V. Shpilko, J. P. Lobachevsky and M. N. Yerokhin. CIGR was represented by the Presidium members, the Honorary Presidents, and by Wang Maohua (China Agricultural University).

L. P. Kormanovsky pointed out the considerable input from the CIGR leadership. Between 1998 and 2000, CIGR and the Russian Federation National Committee on Agricultural Engineering (NCAE RF) prepared the ground for the creation of EAAAE. With the promotion of the former CIGR President Bill Stout, USA, and Honorary President Egil Berge, Norway, during the International conference on 27 of April 2000, representatives of Russia, Belarus and Ukraine laid the foundation for EAAAE. EAAAE was officially founded during the International Scientific and Practical Conference on "Problems of Energy Saving in Agriculture" held in Moscow on 3 October 2000 and attended by 150 delegates from the Russian Academy of Agricultural Sciences, the Ministry of Agriculture of the Russian Federation, and from various research institutes (VIM, VIESH, VNIIZH, SZNIIMESH, VNIIMZHS, VNIKOMZH, VISHOM, NATI) and representatives of JSC “Souzagromash”, JSC “Rosagrosnab”, JSC “Agropromtechservice”, “MGAU”, and by scientists, engineers and specialists in mechanization in Agriculture, including participants from CIS countries as well as Lithuania, Latvia, Poland, the Czech Republic and Finland.
three Vice-Presidents from the member countries, a Secretary-General) were approved by the CIGR General Assembly during the XIV World Congress of CIGR held in Tsukuba, Japan, in December 2000. The EAAAE leadership consists of a President and a Management Committee, which comprises representatives of the national associations of the member countries: Russia: D. S. Streibrov, I. E. Yankovskij, M. N. Yerokhin, A. V. Shpileko, N. M. Morozov; Belarus: V. N. Dashkov, L. S. Gerasimovich, V. A. Shurinov, E. M. Zayats, A. A. Djuzhev; Ukraine: D. I. Mazarenko, N. F. Boiko, N. K. Linnik, D. G. Voitjuk, L. N. Tischenko. EAAAE President Kormanovsky drew attention to the International Conferences, Seminars and Symposiums organized with the participation of EAAAE during 2001-2005:

1. The 5th International Conference “Conception of Mechanization and Automation of Animal Production in XXI Century” (23-24 April 2002, Moscow–Podolsk, Russia)


3. The International scientific-technical Conference “Economic Efficiency Evaluation Methods of Applying Machines and Technologies and Methods of Forecasting of Structure of Fleet of Machines and Tractors in Agricultural Production” (21-23 May 2002, Moscow, Russia)

4. Third International scientific and practical Conference “Ecology and Agricultural Machinery” (5-6 June 2002, St. Petersburg-Pavlovsk, Russia)


7. Fourth International scientific and practical Conference “Ecology and Agricultural Machinery” (5-6 June 2003, St. Petersburg-Pavlovsk, Russia)


10. 4th International scientific-technical Conference “Energy Supplying and Energy Saving in Agriculture” (12-13 May 2004, Moscow, Russia)

12. 8th International Conference “Scientific-technical Progress in Animal Production – Perspective Resources Saving Machine Technologies” (20-21 April 2005, Moscow-Podolsk, Russia)

13. “4th International Conference of Institutes of Agricultural Engineering of Central and East Europe” (12-13 May 2005, Moscow, Russia).

Cooperation with CIGR allows EAAAE to get regularly new technical information about modern achievements of science and practice, to develop mutually beneficial contacts with famous scientists of the leading countries of the world, to organize “Round Tables”, Conferences and Symposia on the key problems of agricultural engineering development, to improve the methodical, metrological and testing base of institutes, design organizations, machine-testing stations and certification centers, to support the realization of investment projects, to attract foreign manufacturers and firms for organizing the joint production of the most efficient machines and food processing equipment which are in very high demand in our countries. The activities of EAAAE and the communication among a large number of specialists from CIS countries and East Europe who use the Russian language can help to promote the participation of Russian, Belarusian, Ukrainian and other agricultural engineers in international meetings of EAAAE and CIGR. It will also help to make more effective use of new scientific-technical information and to introduce the achievements of science and machinery in agro-industrial complexes of our countries. It will be a good basis for the development of new technology and machinery production in Russia, Belarus and Ukraine for their own markets and for the markets of of CIS and other countries.

In conclusion, the EAAAE leaders wish:

1. To express thanks to the leadership of CIGR for visiting Russia, for their active participation in the conference and in the joint meeting of CIGR and EAAAE and for their support of EAAAE.
2. To point out the contribution of the national associations of Russia, Belarus and Ukraine to the activities of engineers in exchanging scientific-technical information, in participating in joint international conferences, in promoting and introducing the newest achievements in the member countries of EAAAE.
3. To provide the national associations with new information about EAAAE activities; to this end, EAAAE should create a website, translate and distribute the CIGR Newsletter in Russian, and improve the review process for articles for the CIGR E-journal.
4. To underline the intention of the leaders of CIGR and EAAAE to promote activities leading agricultural engineers of CIS countries to create their own associations and to cooperate with EAAAE and CIGR. L.P. Kormanovsky President of EAAAE

                             Vice-President of NCAE RF
                             O. S. Marchenko
                             Secretary-General of EAAAE
                             Chairman of CIGR Section III

President of EAAAE
A chronological list agricultural engineering events can also be found in our Events Calendar on CIGR’s Website:

http://www.cigr.org/

XXXI CIOSTA - CIGR V Congress
"Increasing Work Efficiency in Agriculture, Horticulture and Forestry"
19 – 21 September 2005

This congress, sponsored by CIGR, CIOSTA, EurAgEng and VDI-MEG, will be held from 19 to 21 September 2005 at the University of Hohenheim, Germany. The congress language will be English. The scientific programme will include plenary sessions, parallel oral sessions and poster sessions on the following topics:

• Methods and modelling
• Process engineering and controlling
• Calculation and planning
• Farm management
• Ergonomics and work place design
• Work safety, prevention and risk analysis

Oral presentations will be limited to 20 minutes each, plus 10 minutes of discussion. The oral presentations will be supplemented by an exhibition of posters. Both will be published in the proceedings of the congress.

The congress fee will be around 320 Euros (provisional estimate), privileges are intended. A technical tour will be organised on demand. For further information please look up http://www.uni-hohenheim.de/ciosta-cigr and contact the co-ordinator: Dr. Monika Krause E-mail: ciosta@uni-hohenheim.de Tel. +49 711 459 3231 (Tuesdays only), Fax: +49 711 459 4307

9th International Congress on Mechanization and Energy in Agriculture
& 27th International Conference of CIGR Section IV
27 – 29 September 2005

This congress, jointly organised by CIGR Section IV and Ege University (Faculty of Agriculture, Department of Agricultural Machinery), will take place from 27 to 29 September 2005 on the campus of Ege University in Izmir, Turkey. It aims to attract a broad range of contributions from the following research areas:

• Renewable and new energy technologies for agriculture
• Efficient use of energy sources in agriculture
• Recent developments in agricultural machinery
• Future oriented aspects of tractors and system vehicles
• Advances in instrumentation and controls
• Postharvest technologies

• Optimization techniques and applications in biosystems
• Recent developments in agricultural mechanization planning and management

The scientific programme will include oral and poster sessions. Full papers must be prepared according to the instructions given at the congress web site and submitted through the web site or sent on CD. The papers accepted as oral or poster presentations by Scientific Advisory Committee will be included in the congress proceedings. The conference language will be English. The registration fees of 250 Euros include lunches and refreshments as well as (except for accompanying persons) congress materials. For further information go to http://www.ageng.ege.edu.tr/ or contact: The Congress Secretariat; Ege University, Faculty of Agriculture; Department of Agricultural Machinery; 35100 Bornova-Izmir/Turkey. Tel./Fax: +90 232 3427642 E-mail: ageng@ageng.ege.edu.tr

International Seminar “Maintenance of Rural Roads – Stakes and Perspectives”
20 – 21 April 2006

On 20 and 21 April 2006, the Moroccan Permanent Association for Roads Congress (AMPCR) and the National Association for Land Reclamation, Irrigation and Drainage (ANA) will hold an international seminar on “Maintenance of Rural Roads-Stakes and Perspectives” in Rabat, Morocco. Organized in collaboration with CIGR and the World Road Association (PIARC), the seminar will offer an insight into the state of the art in management, funding and techniques related to rural roads maintenance. It will deal with four main topics:

• Role of rural roads and their maintenance
• Maintenance techniques for rural roads
• Management and financing of rural roads
• Integrated development project and rural roads

The seminar languages will be English and French. Simultaneous translation will be provided.

Dates and deadlines:
Notification of acceptance: 31 August 2005
Full papers: 30 November 2005

For further information contact: AN, 1 Rue Haroun Errachid Agdal-Rabat, Morocco. Fax: (+212)37670303 Email: h.bartali@iav.ac.ma Further information can be found at www.piarc.org and www.anafid.org
CIGR Section I: Inter-Regional Conference on Environment-Water 2006
“Concepts for Water Management and Multifunctional Land Uses in Lowlands”
17 – 19 May 2006

The 2006 Inter-Regional Conference on Environment and Water will be held at the Unesco IHE (International Institute for Infrastructural, Hydraulic and Environmental Engineering) at Delft, the Netherlands, from 17 to 19 May 2006. Held under the patronage of CIGR Section I and of ISOMUL (International Studygroup on Multiple Uses of Land), the conference is organized by the NWP (Netherlands Water Partnership), and the Land Use Planning Group of WUR (Wageningen University and Research Centre) at Wageningen, the Netherlands. The Inter-Regional Conference Envirowater 2006 is dedicated in part to research projects and scientific presentations and discussions and in part to presentations and discussions of new concepts for the development of lowlands and deltas, including a one-day field trip in the Rhine Delta. Bringing together all the knowledge, experiments, visions, concepts, research and experiences on what to do with the future of our lowlands and deltas, the conference also addresses the need to integrate all these aspects for a comprehensive planning approach in delta-regions.

Oral presentations and poster sessions will deal with the following subjects:
I. Opportunities and threats
   - Exploitation of natural resources
   - Changing land uses and societal impacts
II. Water and Climate change
   - Climate change and impacts on water resources
   - Climate change and sea level rise
III. Groundwater and salt water intrusion
   - Changes in quantity and quality of groundwater
   - Salt water intrusion and adaptive responses
IV. Water management systems as steering instrument for planning
   - Potentials and constraints of water management for land uses
   - New concepts in water management for land uses
V. Multifunctional land uses as approach to the problems of lowlands and deltas
   - Multifunctional land and water uses
   - New concepts, visions and examples in multifunctional land and water uses

The conference language will be English. Facilities will be provided for technical presentations including video and LCD projections for PC. Scientific papers will be published in proceedings (on CD-ROM). A study tour may be held at the end of the conference. Private companies will be invited to present their latest equipment in a technical exhibition in relation to several topics of the conference.

Important dates and deadlines:
- Submission of abstracts: 1 October 2005
- Acceptance notification/Author instructions: 1 Dec. 2005
- Final manuscript received: 15 January 2006

Author instructions (paper/poster): 15 March 2006
Covering all technical and social sessions (welcome reception, conference dinner and technical tour), the registration fees will be approximately 300/250 Euros for regular participants, 250/300 Euros for students, and 50/60 Euros for accompanying persons (before/after 1 January 2006). A reduction of 20% in fees will apply to participants from Eastern Europe, Africa, Asia and Latin America.

For further information visit the conference website at: http://www.wau.nl/rpv/isomul/envirowater2006/ or contact the conference secretariat: Isomul, Land Use Planning Group, Wageningen University and Research Centre (WUR), Generaal Foulkesweg 13 6703 BJ, Wageningen, The Netherlands. Tel: +31(0)317-483849 Fax: +31(0)317-482166 Email: Envirowater2006@wur.nl

World Congress Bonn 2006
"Agricultural Engineering for A Better World"
3 – 7 September 2006

CIGR, EurAgEng, VDI-MEG and FAO are delighted to invite you to their joint World Congress, which will be held from 3 to 7 September 2006 in Bonn, Germany. The World Congress will combine the “XVI CIGR World Congress” with “AgEng2006” and the "64th VDI-MEG International Conference Agricultural Engineering”. As part of the congress, FAO will hold a workshop on “Agricultural Engineering Contributions to Solve Future Agricultural Problems” covering two half days. Moreover, a preconference on “Automation Technology for Offroad Equipment” will be held immediately before the World Congress.

The following topics and sub-topics will be discussed:
I. Land & Water Use and Environment
   - Power and Machinery
   - Tractors
   - Tillage & seeding
   - Fertilising & plant protection
   - Harvesting
   - Automation technology
II. Power and Machinery
   - Structures
   - Environment
   - Precision livestock farming
III. Information Systems and Precision Farming
   - Processing & Post Harvest Technology and Logistics
IV. Livestock Technology
   - Energy and Non-Food Production Technology
   - Systems Engineering and Management
   - Emerging industrial products
   - Marketing
   - Service systems
   - Traceability
   - Work safety and ergonomics
   - Farm management, calculation and planning
   - Fruit & Vegetable Cultivation Systems
   - Protected cultivation
   - Greenhouses
   - Equipment for tree crops
IX. Global Issues

- Meeting needs of global markets for equipment
- Technologies to enable agri-food exports

Dates and deadlines:

- Submission of abstracts: 1 February 2006
- Notification of acceptance: 15 March 2006
- List of Papers made available: 15 April 2006
- Submission of full papers: 1 June 2006

For additional information please look up http://www.2006cigr.org/ or contact: VDI-MEG, Graf-Recke-Strasse 84, 40239 Düsseldorf, Germany. Phone: +49 211 6214266 Fax: +49 211 6214177 E-mail: info@2006cigr.org

ACTIVITIES BY CIGR REGIONAL SOCIETIES

ASAE Annual International Meeting 2005

17 – 20 July 2005

The American Society of Agricultural Engineers will hold its Annual International Meeting 2005 from 17 to 20 July, 2005, at Tampa, Florida, USA.

The subject areas discussed at the meeting will be:

- Power & Machinery
- Soil & Water
- Information & Electrical Technologies
- Structures & Environment
- Ergonomics, Safety and Health
- Food Processing & Engineering
- Biological Engineering

For conference and exhibit information contact: Sharon McKnight Meetings and Conferences ASAE 2950 Niles Road St. Joseph, Michigan 49085 Tel. +1 269 428 6333 Fax: +1 269 429 3852 E-mail: mcknight@asae.org http://www.asae.org/meetings/am2005/index.html

International Agricultural Engineering Conference

6 – 9 December 2005

Under the auspices of AAAE, this conference on the theme "Agricultural Engineering–Technologies and Future Trends” will be held at the Asian Institute of Technology in Bangkok, Thailand, from 6 to 9 December 2005.

Topics:

- Power and machinery
- Food engineering and biotechnology
- Soil and water engineering
- Energy in agriculture
- Agricultural systems
- Structures and environment
- Electronics in agriculture
- Agro-industry
- Agricultural engineering education
- Agricultural waste management
- Ergonomics
- Terramechanics
- New materials and emerging technologies

Important dates:

- Full papers due: 1 August 2005
- Early registration with payment due: 1 October 2005

For more information, please contact: The Secretariat, Attn.: Dr. Emmanuel C. Canillas, International Agricultural Engineering Conference, ASE SERD Asian Institute of Technology, P.O.Box 4 Klong Luang, Pathumthani 12120, THAILAND. Tel.: +66 2 524 5494 Fax: +66 2 524 6200 E-mail: aaaa@ait.ac.th emann@ait.ac.th
CIGR CO-SPONSORED ACTIVITIES

EFITA/WCCA2005
25 – 28 July 2005

Organised by EFITA and co-sponsored, among others, by CIGR, FAO, and ASAE, the 5th Conference of the European Federation for Information Technology in Agriculture, Food and Environment (EFITA) and the 3rd World Congress on Computers in Agriculture and Natural Resources (WCCA) will be held as a joint conference in the Universidade de Trás-os-Montes e Alto Douro, Vila Real, Portugal from 25 to 28 July 2005. The conference language will be English.

This conference will provide a forum for agriculture related professionals to exchange information on applications and developments in the use of Information Technology. Contributions from various countries will allow a broadened perspective for all attending, and the Organising Committee particularly encourages participation from the new member states of the EU and from the associated candidate countries.

The following topics will be discussed:
- Aquatic resource management
- Adoption and extension
- Dairy and animal production systems
- Decision support systems and modelling: farm management
- Decision support systems and modelling
- Education/training and distance learning/professional accreditation
- E-AgBusiness and production chain management
- Field data acquisition and recording
- Food safety control/tracking-tracing
- GIS and precision agriculture
- Grid Applications
- Information systems and databases
- Instrumentation and control
- Internet services
- Library science and knowledge representation
- Rural and environmental development and policy
- Wireless and sensor networks

The conference fee of 400 Euros covers workshop and conference sessions, all conference materials, welcome reception, four lunches, coffee breaks and a banquet. Additional information is available from the conference secretariat or from the conference website: EFITA/WCCA 2005, Edif. Engenharias II, Universidade de Trás-os-Montes e Alto Douro, 5000-911 Villa Real, Portugal. http://www.agriculturadigital.org/efitaandwcca2005/ Fax: +351 259 350480. E-mail: efita.wcca2005@utad.pt

International Conference on
“Water, Land, and Food Security in Arid and Semi-arid Regions”
6 – 11 September 2005

This conference will be held from 6 to 11 September 2005 at the Mediterranean Agronomic Institute of Bari, in Valenzano, Italy. With the co-sponsorship of CIGR Section I, the event is organized by CIHEAM/Mediterranean Agronomic Institute of Bari and is sponsored by the Arab Water Council and IWRA. Poster presentations and technical sessions opened by keynote presentations by outstanding international experts will cover the following major topics:
- Natural resources & food security (irrigated agriculture)
- Rainfed agriculture and food security
- Food security & use of non-conventional water resources
- Food security and new technologies
- Intensive agriculture and alarming pollution of land and water resources and food quality degradation
- Towards food security: the enabling conditions for effective involvement of stakeholders
- Economic aspects
- Capacity building improvement

The Conference will be conducted in English, with simultaneous English/ French/ Italian translation. Participants must arrange to obtain their own visa for entry into Italy. MAIBari offers a pre-arranged package including lodging and accommodation, local transportation, meals, field visits, proceedings and social events at an amount of 600 Euros.

For further information please contact: the Secretariat of the Conference, Mrs. Mervat Hassan; Responsible - Arab Water Council Secretariat, Cairo Office, Egypt. Tel. 00202 544 9442 Fax 00202 544 94 49 email: abu-zeid@mwri.gov.eg or Mrs. Camilla Caldarulo; Secretariat, Department of Research; CIHEAM/Mediterranean Agronomic Institute, Via Ceglie 9, 70010 – Valenzano(Bari), Italy. Tel. 0039 080 46 06 222 or 201. Fax 0039 080 46 06 206 Email: hamdy@iamb.it

PAWEES2005 International Conference on
Management of Paddy and Water Environment for Sustainable Rice Production
7 – 8 September 2005

With the co-sponsorship of CIGR Section I, this conference will be held at Kyoto University Clock Tower Centennial Hall in the Kyoto University campus, Kyoto, Japan, on 7 and 8 September, 2005. PAWEES 2005 will be organised by the International Society of Paddy and Water Environment Engineering and co-organised by JSPS (Japan Society for the Promotion of Science), JSIDRE (Japanese Society of Irrigation, Drainage, and Reclamation Engineering), NIRE (National Institute for Rural Engineering, Japan), and KSAE (Korean Society of Agricultural Engineers).

Rice, which feeds a half of the world population, is the most important crop in the world and its production process generates millions of jobs. The future status of our societies depend on how we manage rice systems in a sustainable manner since rice is strongly linked to food security, poverty, and the natural environment of many regions. The
conference will bring together leading representatives from academia and international authorities including experienced engineers.

The conference will focus on the following thematic areas:

- Multi-functionality or externality of paddy rice production system (Positive and negative functions, estimation of magnitude, policy implication, etc.)
- Integrated water management on paddy irrigation and drainage (River basin management, comprehensive assessment, participatory management, etc.)
- Environmental conservation and food security through improvement of rice production system (Ecosystem management, self-sufficiency, poverty alleviation, etc.)

The conference programme will be made available at the conference website. A Registration/Paper application form is available at the conference website. The registration fees, to be paid on 7 or 8 September at the conference registration desk, are 10,000 JPY or US$100.

For further information please look up the conference website http://www.jsidre.or.jp/pawees2005 or contact: Dr Yutaka MATSUNO, Secretary General of the Secretariat of the Conference, Department of International Resources Management, Faculty of Agriculture, Kinki University, 3327-204 Nakamachi, Nara, 631-8505 JAPAN, e-mail: matsuno@nara.kindai.ac.jp or Ms. Sachiko YOSHITAKE, Chief Editor of JSIDRE, The Japanese Society of Irrigation, Drainage and Reclamation Engineering, Shimbashi 5-34-4, Minato-ku, Tokyo, 105-0004 JAPAN, e-mail: pawees2005@jsidre.or.jp

7th Fruit, Nut, and Vegetable Production Engineering Symposium “Frutic 05”
12 – 16 September 2005

This symposium will take place from 12 to 16 September 2005 in Montpellier, France. Under the title “Information and technology for sustainable fruit and vegetable production” the programme comprises the following topics concerning fruit (including wine grape), nut, vegetables and fresh cut perishables:

- Precision agriculture, including acquisition of satellite and airborne geo-referenced data
- Technological assistance to fruit and vegetable production: new tools enabling a more effective and environmental-friendly plant management, variety improvement in relation to automation of agricultural practices
- Sensors for collecting information either in field or for post-harvest applications
- Information processing and decision support systems both for agricultural and post-harvest management
- Post-harvest technology: relationship between technology and quality
- Data management: information systems, databank creation and sharing, e-trading

The official language is English. Simultaneous translation will not be provided. A “young researcher” forum will give PhD students an opportunity to present their studies. For further information look up http://www.frutic05.org/ or contact: Michèle EGEA, Phone:+33 467 046 386 Fax: +33 467 046 306 E-mail: Frutic05@montpellier.cemagref.fr

III World Congress on Conservation Agriculture
3 – 7 October 2005

This congress, organised by the African Conservation Tillage Network (ACT), the Ministry of Agriculture of the Republic of Kenya, and the Kenya Conservation Tillage Initiative (KCTI) in association with the New Partnership for Africa’s Development (NEPAD), will take place in Nairobi, Kenya, from 3 to 7 October 2005. Focusing on the main theme “Linking Production, Livelihoods and Conservation”, it will deal with the following sub-themes:

- CA in building communities resilience and ability to provide for own livelihood and development needs
- CA in mitigating/alleviating effects of social ills such as HIV-Aids, urbanisation and declining interest in farming, especially among the young
- Socio-economic, cultural, agro-ecological and technical factors in sustainable adoption of CA
- Soil life, biodiversity and agriculture
- Policies and infrastructure support in enhancing CA adoption
- CA contributing to global environmental quality concerns (carbon sequestration, green-house effect, etc.)
- Empowering farmers and farmer groups/associations in development and adoption of CA
- Effective research and dissemination strategies for CA adoption
- Stakeholder partnership and collaboration, including across sectors and disciplines
- Information-knowledge management

The official languages of the congress will be English and French (with simultaneous translation).

For further information contact: IIIWCCA Secretariat, No. 3, Balmoral Road, Borrowdale, Harare, Zimbabwe. Email: actnetwork@africaonline.co.zw Tel: +263 4 882107 Fax: +263 4 885596 http://www.act.org.zw/congressold/index.html

13th MSAE Annual Conference
9 – 10 October 2005

The Misr Society of Agricultural Engineering (MSAE) and the Agricultural Engineering Department of Al Azhar University announce the 13th MSAE Annual Conference, which will be held from 9 to 10 October 2005 on the premises of Azhar University, Madinet Nasr, Cairo, Egypt. Under the Slogan of “The Role and Horizons of Agricultural Engineering in the Future of Our World”, the conference will deal with the following general topics in agricultural and bio-engineering:

- Sustainable development
- Recycling of wastes and reduction of losses
- Renewable energy and utilization in agriculture
- Education and scientific research in view of evaluation and accreditation
The congress will focus on the following topics:

1. Parameters and concepts of optimal mechanization
   - Role of Al Azhar & other institutions in global development

The activities pursued during the conference include the presentation of research papers, articles, general lectures, posters and workshops as well as field demos, field trips, and a display of modern agricultural machinery, equipment, and technologies.

Dates and deadlines:
- Full manuscripts: 15 August 2005
- Revised papers: 10 September 2005
- The conference fees are 1000 EP (Egyptian Pounds) for organizations, including up to 5 participants, 200 EP for individuals supported by organizations, institutes or universities (other facilities are prevailed to MSAE members upon contact). For participation from outside Egypt, the same figures apply for rates but in US $ or Euros. Donations are invited with recognition in the conference publications and other material.

For further information please contact: Dr Abd El Kadir A. El Nakib, Vice-Dean of the Faculty of Agriculture, Al Azhar University, Madinet Nasr, Cairo, Misr-Egypt (Chairman of the Conf. Steering Committee). Tel ++20 2 4024190 /4024132; Fax ++20 2 4011710 or: Dr. Nabil El Awady, President, MSAE; (Sc. Chairman. of the Conf.) e-mail: awady37@yahoo.com
http://www.geocities.com/awady37/msaeconf.html

International Congress on
"Efficiency and Environmental Impacts of Agricultural Mechanization"
9 – 11 November 2005

This congress, co-sponsored by CIGR Technical Section III - "Equipment Engineering for Plant Production" – and organised by the Institute of Agricultural Engineering, Water and Forest Research (Tunisia) in collaboration with the Tunisian Association of Agricultural researchers, will be held from 9 to 11 November 2005 in Hammamet, Tunisia.

The congress will focus on the following topics:
1. Parameters and concepts of optimal mechanization
   - Approaches and strategies of agricultural mechanization
   - Adaptability of mechanization to conventional cropping systems, farm types and socio-environmental concepts
   - Case studies
2. Technical efficiency of agricultural equipment
   - Modelling of soil-machine and plant-machine interaction
   - Optimization of technical efficiency parameters
   - Interaction between machine efficiency and the agro-socio-economic context
   - Technological innovations and decision support tools.
   - Technical and economical management
3. Environmental impact of agricultural mechanization
   - Soil and water conservation aspects
   - Non-pollutant aspects of spraying practices

Contributions in these and related areas are welcome.

Dates and deadlines:
- Complete paper submission: 30 August 2005
- Name list of accepted authors: 25 September 2005

The congress languages will be French and English; simultaneous translation will be provided.

For further information please look up http://www.iresa.agrinet.tn/cma2005 or contact the Secretariat of cma2005: I.N.R.G.R.E.F., BP 10 – Ariana 2080 Tunisia. Tel.: +216 71 717 901 or +216 71 709 033 or +216 71 719 630 Fax: +216 71 717 951 E-mail: cma2005@iresa.agrinet.tn

PIARC TC 2.5 International Seminar on
"Sustainable Access and Local Resource Solutions"
28 -30 November 2005

Committee TC 2.5 on Rural Roads and Accessibility of the World Road Association (PIARC) in collaboration with Royal Government of Cambodia – through the Ministry of Rural Planning, is organising an International Seminar on Sustainable Access and Local Resource Solutions to be held from 28 to 30 November 2005 at Siem Reap, Cambodia (close to the Ankor Wat World Heritage site; Siem Reap has direct international flight connections). The seminar is co-sponsored by CIGR Section I "Land and Water Engineering".

Attainment of the objectives of poverty eradication measures, currently being pursued by many developing countries, is difficult without addressing rural accessibility. The seminar is intended to stimulate debate on the subject and contribute to the collection of information on experiences and best practices for meeting the needs of rural accessibility. The languages of the seminar will be English and French; simultaneous translation for the two languages will be provided during; availability of Spanish translation is to be confirmed later.

The seminar will deal with the following sub-themes:
- Policies, planning and management models/tools – involvement of communities, including Integrated Rural Accessibility Planning (IRAP) approaches; using examples from countries at different stages of development
- Use of local resources – human, enterprises, institutions, communities, materials, with particular attention to solving problems of hilly and mountainous terrain, communities in remote areas, flood susceptible areas, problematic materials, use of local resources and low cost surfaces
- Review of how the social and economic functions of low volume roads for rural communities are being appraised and what indicators are used to assess rural transport needs
- Practice guidance on design issues for low volume roads that deliver cost effective solutions fit for their purpose.

Important dates:
- Full paper submission: 31 August 2005

Delegates from developing countries may apply for partial funding support from the PIARC Secretary General. Such support will be provided based on the PIARC eligibility criteria.
34th International Symposium
"Actual Tasks on Agricultural Engineering"
21 – 24 February 2006

Co-sponsored by CIGR, this symposium will be held from 21 to 24 February 2006 in Opatija, Croatia. The symposia “Actual Tasks on Agricultural Engineering” have been organised for 33 years now. In recent years they have achieved greater international standing thanks to the co-sponsoring by EurAgEng, CIGR, AAAE and AESEE. The aim of this series of symposia is to present the latest scientific results on all aspects of research, design and development work in the various disciplines of agricultural engineering. The main topics to be covered by this symposium are:

- Farm mechanisation
- Power and machinery
- Ergonomics
- Energy in agriculture
- Soil and water
- Pre-harvest technology
- Crop harvesting
- Post-harvest technology
- Livestock buildings and equipment
- On-farm water and soil management
- Pre-harvest technology
- Post-harvest technology
- Integrated water and land management
- On-farm water and soil management
- Performance evaluation and integrated management of irrigation and drainage systems
- Irrigation efficiency and associated economics
- Irrigation: poverty alleviation and food security improvement
- Demand water management in irrigation sector
- Water valuation in the irrigation sector, cost coverage, tariff system and rate level: opportunities and constraints
- Water scarcity, water harvesting
- Conjunctive use of water to optimize food production
- Virtual water concept and food security
- Policy options for water saving in irrigation
- Management transfer and participatory irrigation and drainage management
- Application of information technology in irrigation and drainage management
- Water quality/salinity management
- Role of irrigation in environmental fate of nutrients (N and P)
- Unconventional water use and environmental impacts
- Impacts of climate change on hydrological regimes and water resources
- Legal and institutional challenges
- Capacity building in water and land management
- Gender issues in water and land management

For further information look up http://www.piarc.org/en/projects/seminars/ and contact: Mr. Heng Kakada, BSc CEng, MSc Transport Infra, Secretary of Cambodia National Community of Transport Practitioners (CNCTP), E-mail: CNCTP_Secretary@online.com.kh or Mr. Than Vuth, Office Coordinator, NRDP – IRAP Component, ILO – IRAP/GIS Project, Email: vuthT_ilo@online.com.kh

International Symposium on
"Water and Land Symposium for Sustainable Irrigated Agriculture"
4 – 8 April 2006

This symposium will be held at the Mithat Oszan Conference Hall of Cukurova University in Adana, Turkey from 4 to 8 April 2006. Organised by Cukurova University and co-sponsored by CIGR along with CIHEAM/Mediterranean Agronomic Institute of Bari and Kahramanmaras University, the Turkish Scientific Research Council, the Turkish Society of Agricultural Engineers and RIHN (Research Institute for Humanity and Nature, Kyoto), the symposium will be dedicated to the memory of Prof. Osman Tekinel (1936-2004), a pioneer of agricultural water management in Turkey and the founder of Cikurova University and Kahramanmaras University. The language of the symposium will be English. Participants and contributors to the symposium are invited to submit presentations/papers dealing with the following topics:

- Integrated water and land management
- On-farm water and soil management
- Performance evaluation and integrated management of irrigation and drainage systems
- Irrigation efficiency and associated economics
- Irrigation: poverty alleviation and food security improvement
- Demand water management in irrigation sector
- Water valuation in the irrigation sector, cost coverage, tariff system and rate level: opportunities and constraints
- Water scarcity, water harvesting
- Conjunctive use of water to optimize food production
- Virtual water concept and food security
- Policy options for water saving in irrigation
- Management transfer and participatory irrigation and drainage management
- Application of information technology in irrigation and drainage management
- Water quality/salinity management
- Role of irrigation in environmental fate of nutrients (N and P)
- Unconventional water use and environmental impacts
- Impacts of climate change on hydrological regimes and water resources
- Legal and institutional challenges
- Capacity building in water and land management
- Gender issues in water and land management

Abstracts should be limited to 400 words. During the Sessions, there will be oral presentations by invited keynote speakers. The program in its final form will be provided in due time. Poster presentations on all the themes will also be organized.

Registration fees are 200 US Dollars (150 Euros) for participants from developed countries, 100 US Dollars (75 Euros) for participants from developing countries, and 50 US Dollars (35 Euros) for young professionals (under 35 years of age).
Important Deadlines
Notification of acceptance: 15 September 2005
Paper submission: 15 January 2006
For further information please contact the Secretariat: Dr. Attila YAZAR, Cukurova University, Irrigation and Agricultural Structures Department, 01130 Adana, Turkey. Tel.: +90 322 3386515, Fax: +90 322 3386386, E-mail: symp2006@cu.edu.tr

International Conference on "Advances in Agricultural Technologies and Their Economic and Ecological Impacts"
9 – 11 May 2006

On 9-11 May 2006 the Israeli Society of Agricultural Engineers will hold its Annual Meeting and an International Conference in Tel Aviv, Israel. Co-sponsored by CIGR, the International Conference will be held in Cooperation with - and in the same location as - the "Agritech 2006" Exhibition.

The topics are:
1. Advanced technologies in field and greenhouse crops and their postharvest processing
   - Precision agriculture
   - Energy savings in greenhouses
   - New sensors for improvement of quality and safety of agricultural products
2. New agricultural technologies for reduction of environmental damage
   - Recycling and purification of irrigation and sewage water
   - Applications of GIS for agricultural and environmental tasks
   - Environment-friendly spray application

You are invited to submit proposals for papers to be presented at the conference.

For further information contact Dr. Samuel Gan-mor, President, The Israeli Society of Agricultural Engineers, Institute of Agricultural Engineering ARO, P.O. Box 6, Bet Dagan 50250 ISRAEL. Email: ganmar@agri.gov.il Tel.: +972 3 9683303 or +972 506 220649
http://www.agritech.org.il/events/event.php?oid=5

V CIACH: The Agricultural Engineering Specialization in a Globalized World
10 – 12 May 2006

Co-sponsored by CIGR and organised by the Agricultural Engineering School of the University of Concepción and the National Agricultural Research Institute, the 5th International Congress of Agricultural Engineering will be held from 10 to 12 May 2006, at the University of Concepcion, Chillán Campus, Chile. The main topics to be covered in oral or poster presentations are:
- Computer aids and automation in agriculture
- Agricultural mechanization
- Energy in agriculture
- Water resources in agriculture
- Food engineering
- Post-harvesting processing

1st International Conference on Monitoring, Simulation, Prevention and Remediation of Dense and Debris Flows
7 – 9 June 2006

This conference, organised by the Wessex Institute of Technology and co-sponsored by CIGR and EurAgEng, will be held from 7 to 9 June 2006 in Rhodes, Greece. The scientific programme of Debris Flow 2006 will include an opening session, parallel oral sessions, and poster sessions on the following topics:
- Mass wasting and solid transport
- Slope failure and landslides
- Sediment, slurry and granular flows
- Solid transport within a streamflow
- Hyper-concentrated flows
- Debris-flow phenomenology and rheology
- Debris-flow triggering and mobilisation mechanisms
- Debris flow modelling
- Debris flow disaster mitigation (structural and non-structural measures)
- Case studies
- Computer models
- Rock falling problems
- Mechanics of solid-liquid-flows

The language of the conference will be English. As part of the conference a Special Session will be held on "Sediment discharge and hyper-concentrated and debris flows: monitoring, modelling, hazard assessment, design of mitigation measures and case studies".

For further information please look up www.wessex.ac.uk/conferences/2006/debris06/index.html or contact the chairmen of the conference: Lorenzini G., Alma Mater Studiorum-University of Bologna, Italy; Brebbia C.A., Wessex Institute of Technology, Southampton, UK; Emmanueloudis D., Technical Education Institute of Kavala, Greece; or contact the Chairman of the Special Session: Daniele De Wrachien, Department of Agricultural Hydraulics, State University of Milan, Italy, e-mail: daniele.dewrachien@unimi.it
22nd European Regional Conference of ICID  
3 – 10 September 2007

Sub-titled “Water Resources Management and Irrigation and Drainage Systems Development in the European Environment”, this conference will be held by ICID from 3 to 10 September 2007 at the University of Pavia, Italy. The event will be sponsored by the Lombardia Region, with the patronage and scientific support of CIGR, EurAgEng and WWC.

The scientific programme will include an opening session, parallel oral sessions and poster sessions on the following topics:

- Impacts of extreme hydrological events on irrigation and drainage systems
- Energy saving technology in advanced irrigation systems
- Conjunctive use of surface and groundwater
- Participatory management and economic policies for irrigation and drainage development.

Post-conference study tours will also be organized. The official languages of the Conference will be English and Italian, with simultaneous translation during the opening session.

Dates and deadlines

Submission of abstracts 31 May 2006
Notification of acceptance 1 October 2006
Submission of full papers 31 May 2007

For further information, please contact the Secretariat: Prof Elisa Scarascia Mugnozza, ITAL-ICID, Via Sallustiana, 10 Rome, Italy. Tel. and Fax: +39 06 488 4728 e-mail: me.scarascia@politicheagrnicole.it or the Vice Chairman: Prof. Daniele De Wrachien, Department of Agricultural Hydraulics, State University of Milan, Italy e-mail: daniele.dewrachien@unimi.it

OTHER ACTIVITIES

19th International ICID Congress &  
56th International Executive Council Meeting  
10 – 18 September 2005

From 10 to 18 September 2005, the 19th International Congress of ICID and the 56th International Executive Council Meeting will take place in Beijing, China.

The main topics of this congress events are:

- Improving water and land management for increasing efficiency in irrigated agriculture
- Harmonious coexistence with flood water
- Legal and institutional challenges
- Water quality/salinity management
- Management of historical/traditional irrigation projects
- All congress activities will take place at the Beijing International Convention Center. Registration fees are USD 850 for member country (region) delegates, USD 900 for non-member country (region) delegates, and USD 400 for young professionals, i.e. those under 40 years old as of 18 Sep 2005. For further information look up http://www.icid2005.org/

IUSS Conference on Salinisation  
19 – 22 September 2005

This conference will take place from 19 to 22 September 2005 at the Palace the Hungarian Academy of Sciences in Budapest, Hungary. The lectures and poster presentations of the conference will deal with the following subjects:

- Remote sensing and GIS in the assessment, mapping and monitoring of salinity/sodicity/alkalinity status of soils
- Assessment of soil salinity/sodicity/alkalinity with new laboratory and field techniques
- Agrogeological problems related to salinization/sodication/alkalization
- Ecology and soil-plant correlations in native salt-affected habitats
- Mapping of salt-affected soils based on environmental correlation
- The role of geological and other environmental conditions in the genesis of saline and sodic soils
- Groundwater depth, concentration and its relationship with salinization/sodication/alkalization of soils
- Classification of salt-affected soils for international correlation, land use and land evaluation
- Modern methods for the characterization and diagnosis of physico-chemical and colloid-chemical properties of sodic soils
- New approaches and results in the amelioration of sodic soils, under irrigation and rain fed conditions (chemical, agrotechnical, biological and complex amelioration practices, afforestation measures)
- Protection of saline lakes, grasslands and other salt-affected habitats
- Ecological consequences of soil amelioration
- Spatial and temporal changes in salinity/sodicity/alkalinity status of salt-affected areas
- Prevention and prediction of secondary salinization/sodication/alkalization due to irrigation
- Use of saline waters in agriculture
- Legal aspects of irrigation-induced salinization
- Prevention of ecological catastrophes and other off-site consequences of secondary salinization
- Increase of public awareness and education for the prevention of secondary salinization

The registration fees are 360 Euros for industry participants, 300 for academic participants, and 200 for students.

For further information please look up http://www.mozaik.hu/iuss/ or contact the Scientific Secretariat/Chief Organizer: Tibor Tóth, Research Institute
The topics to be addressed include, but are not limited to Adana Chamber of Industry and many others. Chamber of Agricultural Engineers of Turkey (Adana Council of Turkey, the Turkish Informatics Society, the sponsored by the Scientific and Technical Research Adana, Turkey

This congress will be held from 12 to 14 October 2005 in Adana, Turkey. ITAFE05 will be supported and sponsored by the Scientific and Technical Research Council of Turkey, the Turkish Informatics Society, the Chamber of Agricultural Engineers of Turkey (Adana branch), the Çukurova Animal Science Association, the Adana Chamber of Industry and many others. The topics to be addressed include, but are not limited to the following:

• Simulation systems
• Virtual reality
• Biotechnology and bioinformatics
• Wireless communication and rural area networks
• Laboratory systems and robotics
• Automation in process control
• Quality control and standards
• Machine vision and image processing
• Data acquisition and signal processing
• GIS, GPS and RS systems
• Precision farming
• Environment control systems
• Water management systems
• Expert systems, decision support systems
• Strategy and management information systems
• Agricultural and biological databases
• E-commerce, e-business systems & applications
• Technology enhanced learning systems and solutions, e-learning
• Modelling and use of statistical analysis
• Information gap and sectoral risks
• Rural development and information society
• Use and diffusion of ICT in developing countries

Dates and deadlines:

Early registration deadline: 15 July 2005
Camera-ready paper submission: 1 September 2005
Late registration deadline: 30 September 2005

The registration fees (before/after 15 July 2005) are 100/120 Euros for regular delegates and 80/100 Euros for CIGR, AESEE, TMMOB, or TBD members. For detailed information and pre-registration please visit the congress website at http://itafe05.cukurova.edu.tr/ or contact itafe05@cukurova.edu.tr Sait M. Say, ITAFE '05 Secretary, Dept. Of Agricultural Machinery, Faculty of Agriculture, 01330 Balcali, Adana, TURKEY.

HYDRO 2005: Policy into Practice
17 – 20 October 2005

This conference will be held in Villach, Austria from 17 to 20 October 2005. Topics:

• Policy into practice
• Innovation, best practice and environmental sustainability
• Maximizing the benefits of hydropower
• Longevity of hydro plants
• Learning from experience (successes and failures)

Dates and deadlines:

Full paper submission 29 July 2005
For additional information contact: Hydro 2005, Mrs Margaret Bourke, Aqua~Media International, Westmead House, 123 Westmead Road, Sutton, Surrey SM1 4JH, UK. Fax: + 44 20 8643 8200. Email: hydro2005@hydropower-dams.com http://www.hydropower-dams.com/

International Congress on Irrigation and Drainage: Cuba-Irrigation 2005
25 – 28 October 2005

The Irrigation and Drainage Research Institute (IDRI), belonging to the Ministry of Agriculture in Cuba, invites you to participate in the International Congress to be held in 25-28 October 2005 in Havana, Cuba. The conference languages will be English and Spanish. The main topics for discussion are:

• Irrigation and drainage technologies
• Modernizing and maintenance of irrigation and drainage systems
• Environmental and social impact of irrigation and drainage
• Protection rules against tropical hurricanes
• Application of plastics in the efficient use of water for irrigable areas

Participants requiring an Invitation Card to get permission from their institutions may request one from the President of the Organizing Committee. The congress fees are $ 200 USD for delegates and $ 60 USD for their companions. For further information please contact Dr. A. Reynaldo Rey Garcia, President of the Organizing Committee, P.O.B: 6090, Havana, Cuba. Tel.: (537)911038, Fax: (537)917595 e-mail: iird@ceniai.inf.cu http://www.loseventos.cu/cuba-riego2005

International Training Workshop on Protected Agriculture
21 November – 4 December 2005

This workshop, sponsored by the Department of International Cooperation of the Chinese Ministry of Science and Technology and organised by Yangling Demonstration Zone of Agricultural High-Tech Industries will be held in Yangling, Shaanxi Province, China, from 21 November to 4 December 2005.

Inter alia, participants will be expected to present papers on the following topics:

• The recent development of protected agriculture in the
Participant's country
• Research and application of new technology of protected agriculture
• Key issues and problems in protected agriculture

For further information, please contact Mr Wang Jucang, Int'l Exchange Center, Yangling Demonstration Zone of Agricultural High-Tech Industries, 1 Xingquiao North Road, Yangling – Shaanxi 712100, China. Tel.: +86 29 87036061 E-mail: wjc@ylagri.gov.cn

14th European Biomass Conference and Exhibition
17 – 21 October 2005

Subtitle “Biomass for Energy, Industry and Climate Protection”, this event is scheduled to take place from 17 to 21 October 2005 in Paris, France. It will comprise plenary lectures describing the state-of-the-art in biomass technology; oral and visual presentations of research, development, demonstration and commercial projects; workshops on specific Biomass issues; an exhibition of biomass products, utilisation and conversion technologies.

The following topics will be discussed:
• Biomass resources
• Research and development of bioenergy conversion technology systems
• Demonstration and market implementation of bioenergy in the heat and electricity sector
• Demonstration and market implementation of bioenergy in the transportation sector
• Application of biomass for energy, industrial products
• Economics and benefits deriving from biomass process technologies, integration and simultaneous production
• International biofuels trade, strategy, policy and climate protection issues
• International co-operation for accelerating the large-scale worldwide deployment of bioenergy
• Biomass in the developing world

Papers presented at the conference will be published in the Proceedings. For further information, look up http://www.conference-biomass.com/ For enquiries concerning abstract submission, please contact: ETA - Florence Attn.: Eng. Silvia Vivarelli Tel:+39 055 500 2174 Email: biomass.conf@eta.orence.it

48th Annual Scientific Conference
"Agriculture and the Environment - Present and Perspectives"
20 – 21 October 2005

This conference will take place on the 20 and 21 October 2005 at the Faculty of Agriculture in Iasi, Romania.

The registration fees (500,000 lei for the participants from Romania and the Republic of Moldavia and 50 € for participants from other countries) includes: cost of registration, book of abstracts (including conference programme), CD with scientific papers of the conference, coffee/tee breaks, conference banquet.

The main sections of the symposium are:
• Fundamental research
• Soil, water and environmental protection
• Agricultural technologies
• Economic sciences and humanities

For further information contact:
Prof. Constantin Leonte, Dean, Faculty of Agriculture - USAMV Iasi, Aleea Mihail Sadoveanu nr.3, Iasi, 700490, Romania. Tel.: ++40 232 275070/144 Fax: ++40 232 219175 Email: cleonte@univagro-iasi.ro or: Assoc. Prof. Danil Bucur, Scientific Secretary, Faculty of Agriculture - USAMV Iasi, Aleea Mihail Sadoveanu nr.3, Iasi, 700490, Romania. Tel.: ++40 232 275070/105 or ++40 232 274956/105 Fax: ++40 232 260650 mobile: ++40 723 887131 Email: dbucur@univagro-iasi.ro
http://www.univagro-iasi.ro/simpozion/

Annual Scientific Conference and General Meeting of TSAE
21 – 23 November 2005

The 2005 Annual Scientific Conference and General Meeting of the Tanzania Society of Agricultural Engineers (TSAE) will be held at the former TANESCO Training Centre, Morogoro, Tanzania from 21 to 23 November 2005. The main theme will be “Agricultural Mechanization and Industrialization in Developing Countries: Addressing the Problems of the Poor”. The Annual General Meeting will be held on 23 November 2005.

Topics:
• Agricultural mechanization
• Industrialization
• Information and communications technologies (ICTs)
• Energy saving technologies
• Post harvest technologies
• Job creation, entrepreneurship, income generation
• Education and training
• Environmental issues
• Water supply and sanitation
• Gender issues
• Role of the private sector
• HIV/AIDS.

Deadline for full papers: 15 August 2005
The Secretary, Tanzania Society of Agricultural Engineers (TSAE), P.O. Box 3003, CHUO KIKUU, MOROGORO. TANZANIA. Tel: +255 23 2604216; +255 23 2603511-4 Ext. 4433; Fax: +255 23 2603718. E-mail: tsae@suanet.ac.tz http://eng.suanet.ac.tz/

XII PIARC International Winter Road Congress
27 – 30 March 2006

This Congress will be held in Torino-Sestriere, Italy from 27 to 30 March 2006.

The main subjects will be:
• Strategies, levels of service and standards
• Performance and financing
• Safety and mobility in winter, social aspects
OTHER ACTIVITIES

• Environment
• Winter maintenance management systems
• Snow and ice removal technology

Dates and deadlines:
Early registration: 30 November 2005
Hotel reservation: 30 January 2006
For additional information please look up http://www.aiper2006.it/ or contact: International Congress Torino, Via Cervino 60, 10155 Torino, Italy.

ISTRO-17th Triennial Conference on “Sustainability – Its Impact on Soil Management and Environment”
28 August – 3 September 2006
This conference will be held from 28 August to 3 September 2006 at the Christian Albrecht University of Kiel, Germany. The conference will comprise 5 days of sessions, including working groups, tours and displays. The official conference language will be English. The conference registration fee will be around 300 EUR, with discounts for ISTRO members and students. The registration fee will not cover the mid-conference field day or the pre- and post-conference tours. An additional symposium on Soil Structure will be chaired by A. Smucker and B. Kay.
The conference will deal with the following topics:
• Soil dynamics and traction
• Traffic, tillage, and soil deformation
• Conservation farming and forestry landuse systems and environmental quality
• Soil biological quality and health
• Soil amendments
• Precision agriculture; mapping of soil properties and soil functions in agriculture and forestry
• Soil erosion and its control
• Economical aspects
• Soil management induced global change effects
• Sustainable landscape management
• Soil reclamation

Dates and deadlines:
Abstracts due: 1 August 2005
acceptance notification: 30 September 2005
full papers due: 15 January 2006
end of early-bird registration: 15 January 2006
final announcement 30 March 2006

Abstracts should be submitted as a Microsoft Word file sent as an attachment via email to b.vogt@soils.uni-kiel.de Please use your surname and first name to name the document. For further information contact: Istro 2006 Conference Secretariat, Olhausenstr. 40, D-24118 Kiel, Germany. Tel.: +49 431 8802573, Fax: +49 431 8802940 Email: b.vogt@soils.uni-kiel.de or look up http://www.soils.uni-kiel.de/istro.htm

PUBLICATIONS

CIGR Electronic Journal: http://cigr-ejournal.tamu.edu/

ASAE Distinguished Lecture Series No. 29: Continuously Variable Tractor Transmissions
Presented at ASAE Agricultural Equipment Technology Conference (AETC), Louisville, KY/USA, 14-16 February 2005, by Karl Th. Renius and Rainer Resch, TU Munich, Germany.
The paper starts with a longer analysis of the colorful history of CVT, discussing some interesting early ideas and typical problems. Hydrostatic CVTs are in the foreground for the vehicle drive of tractor transmission systems. Market demands are addressed including speeds, efficiencies, typical control strategies, expected load spectra and others. Load spectra, for example, must consider the high loads due to the popular automatic full power control. Physical CVT principles are described in a survey, their applications include the automobile sector and others.

Regarding long-term tendencies, the importance of electrical drives is expected to increase. There are several research activities for electrically driven mobile machinery and there are chances for improved components and reduced costs due to the trends in the car industry: the first mass-produced mechanical-electrical power split drive of a vehicle worldwide is offered with the Japanese Toyota “Prius” car. Its transmission structure is described in the Lecture because it stimulates or accelerates many other projects and may also increase the potential of electrical components for tractor CVTs.
The brochure with 37 pages, 42 figures, 5 tables and 92 references can be ordered directly from Sandy Rutter at rutter@asae.org.

CIGR Handbook of Agricultural Engineering
Edited by CIGR and published by ASAE. Five volumes,
PUBLICATIONS

2,400 pages, 110 authors. The books are available in CD-ROM and individual hardcover book format. Further information: ASAE; Dept. 1661, 2950 Niles Road, St. Joseph, MI 49085-9659; USA, Tel: 616-428-6324; Fax: 616-429-3852 E-mail: martin@asae.org

International Commission of Agricultural Engineering: Framework of Organization, State and Perspectives

This publication, in Russian, gives an overview of the organisational structure of CIGR and it lists useful addresses of people active in CIGR. Published by Rosinformagrotex, Moscow, 2004, 140pp. ISBN: 5-94600-011-X

CIGR E-Journal: ISSN 1682-1130

Since the last issue of the CIGR Newsletter the following papers have been published in Volume VI (2005) of the CIGR E-Journal / Agricultural Engineering International: The CIGR Journal of Scientific Research and Development Peer Reviewed Original Research Articles


Yearbook Agricultural Engineering 17 (2005)

Volume 17 (2005) of the Jahrbuch Agrartechnik / Yearbook Agricultural Engineering, edited by F. Meier and H.-H. Harms, is now available. Contributions appear in English as well as German. The publication is available for 50.50 Euros from the publisher: Landwirtschaftsverlag Münster-Hiltrup, Germany. Tel: +49 (0) 2501 80 13 00, Fax: +49 (0) 2501 80 13 51, E-Mail: Service@lv-h.de. Purchase order number 75065. ISBN 3-7843-3345-10

MISCELLANEOUS

Dr Yohei Sato President of NIAES

Dr Yohei Sato, Chair of CIGR Section I, has taken over the position of President of NIAES (National Institute for Agro-Environmental Sciences). The former National Institute of Agro-Environmental Sciences (NIAES) of MAFF was founded in 1983 to conduct advanced and basic technological development that pertains to the control, maintenance and utilization of the agro-environment including the biological environment. NIAES was turned into a semi-autonomous agency on April 1, 2001. The new NIAES (National Institute for Agro-Environmental Sciences) concentrates on the following basic research targets to fulfill its research missions on a global scale.

1) Strategies to ensure stable food supplies under global environmental change.
2) Assuring the safety of food and environment utilizing the natural circulation function of agriculture.

3) Succession of the agro-environmental resources to future generations.
NIAES comprises the following departments:
• Department of Global Resources
• Department of Biological Safety
• Department of Environmental Chemistry
• Natural Resources Inventory Center
• Chemical Analysis Research Center

The main research facilities of NIAES include a library with approximately 130,000 books and 2,100 periodicals, a soil museum, an insect museum with 1.2 million specimens, an isolation field for transgenic plants, and an analysis facility for hazardous chemicals in the environment. NIAES is located in Tsukuba Science City, approximately 60 km northeast of Tokyo. National Institute for Agro-Environmental Sciences, 3-1-3 Kannondai, Tsukuba, 305-8604, Japan. Tel: +81 29 838 8180 Fax: +81 29 838 8167 E-mail: www@niaes.affrc.go.jp

For further information, please consult the web page at http://www.niaes.affrc.go.jp/index_e.html
Bidding for 2014 CIGR World Congress

National agricultural engineering societies may tender bids to organise the 2014 CIGR World Congress. Bids (ten copies) should be submitted to the CIGR General Secretariat by 31 May 2006. A decision shall be taken in the CIGR General Assembly to be held during the CIGR World Congress at Bonn in September 2006. Proposals should be prepared according to the following guidelines:

- Name of event—XVIIIth CIGR World Congress 2014
- Proposed dates
- Name, address, phone, fax and email address of prospective organizer. The organizer will be responsible for all arrangements. The first announcement should be available as early as possible, at least 2 years before the congress. A second announcement containing all the details of the meeting and a call for papers should be available 12-15 months before the congress.
- Names of members of the organizing committee. Address and email of chair of the organizing committee.
- Names of members of the programme/scientific committee. This committee shall make every effort to ensure high scientific standards in the selection of papers.
- Number of participants for planning purposes --
- Congress facilities, e.g. plenary sessions auditorium capacity, meeting rooms available (number and size), registration area, press room, lounge, etc.
- Food service available, e.g. cafeteria, coffee/tea, banquet facilities, etc.
- Lodging, e.g. hotels, dormitories, etc. Number of rooms, location relative to congress site (walking distance, bus shuttle service, public transport, etc.). A range of prices should be offered including some low-priced rooms for students and others on a limited budget.
- Technical tours proposed. Identify main technical and tourist sites. Number of days proposed.
- Activities for accompanying persons.
- Cultural events, e.g. concerts, museums, etc.
- Potential sponsors (industry, government, foundations, international agencies, etc.)
- Associated events, e.g. exhibitions, fairs, cultural/educational events, etc.
- Suggested cosponsors
- Other relevant information

CIGR General Secretariat on the Move

Please note that the address of the CIGR General Secretariat will change as of 1 January 2006. The handling of the affairs of the General Secretariat will be taken over by Prof. Takaaki Maekawa, University of Tsukuba, Institute of Agriculture and Forest Engineering, Tennodai 1-1-1, Tsukuba, Ibaraki, 3005-8572, Japan, T.: +81 298 53 6989, F.: +81 298 53 7496, E-mail: biopro@sakura.cc.tsukuba.ac.jp