



ICID-CIID

Newsletter 2005/2

••• Managing Water for Sustainable Agriculture

Message from the President's Desk...

Greetings from Central Office

At the Central Office, all our staff are busy doing the preparations for our 19th Congress and 56th IEC scheduled for Beijing this coming September. Paper writers would have received by now repeated reminders to submit their manuscripts so that the proceedings can be finalised on time. At the same time, the agenda for Working Groups and Committees meetings will be put on the Web as well as sent out to members shortly. We have also received the entries for the Best National Committee and Best Working Group and these are being evaluated. Meanwhile, the final bulletin has been distributed and our host, the Chinese National Committee, are very busy finalising all the arrangements, including those minor details necessary to ensure that this Congress will be the best ever for the expected 1000 delegates.

Approximately 250 papers have been accepted for presentation/poster session during the Congress covering Question 52 (Improving Water and Land Management for Increasing Efficiency in Irrigated Agriculture); Question 53 (Harmonious Coexistence with Flood Water); the Special Session on Legal and Institutional Challenges; and the Symposium on Water Quality/Salinity Management. In addition, there will be a number of Workshops and other sessions as well the Gulhati Memorial Lecture, to keep us all busy throughout the week. I have also received the good news that Commissioner John

W. Keys of the U.S. Bureau of Reclamation has graciously consented to accept our invitation to join us in Beijing and to speak to us on the reforms being carried out by the USBR in the irrigation and drainage sector (including flood control).

One of the major items we will have to discuss in Beijing will be ICID's input to the Fourth World Water Forum (4WWF) to be held in Mexico City in March next year. As many of you may already know, the main theme of the 4WWF is "Local Actions for a Global Challenge" to be discussed under five framework themes (viz. Water for Growth and Development; Implementing Integrated Water Resources Management (IWRM); Water Supply and Sanitation for All; Water Management for Food and the Environment; and Risk Management) and five cross-cutting perspectives (viz. New Models for Financing Local Water Initiatives; Institutional Development and Practical Processes; Capacity Building and Social Learning; Application of Science, Technology and Knowledge; and Targeting, Monitoring and Implementation Assessment). Overall, we have constituted a Task Force under the Chairmanship of President Hon Aly Shady to manage the whole process, very much similar to the Task Force formed for the 3WWF, where ICID made very important impacts.

Looking at the five framework themes, our National Committees are certainly involved in almost all the five, except perhaps on Water Supply and Sanitation; though even in

this topic I know our Japanese National Committee and in particular, Vice President Hon Taniyama is very much into this



subject. For the framework theme of IWRM, ICID has been moving from scheme level to basin level and certainly IWRM will be meaningless if the biggest water consumer is not on board. The convener of this theme is the Global Water Partnership (GWP) and I am glad to note that in many regions, our ICID stalwarts are also playing an active role in the GWP regional committees. In fact, I am planning during our stay in Beijing to organise a meeting of the Chinese National Committee together with the GWP Committee for China so that both sides can get to know and appreciate the work of the other. Meanwhile ICID will be one of the major conveners on the theme 'Water Management for Food and the Environment' wherein we can share the results of our work on the Country Policy Support Programme (CPSP). Finally on Risk Management, we are working with WMO particularly in the areas of floods and droughts, and lately tsunamis. All in all, we have a heavy workload ahead of us.

Till we meet again in Beijing, with my warmest regards,

Ir. Keizrul bin Abdullah
President, ICID

Er. M. Gopalakrishnan, Secretary General, ICID elected as President, IWRS

The Indian Water Resources Society (IWRS) is a multi-disciplinary organization dedicated to the advancement of the science and technology of water resources development and management. In their Annual General Body Meeting held in New Delhi recently, the IWRS has elected Secretary General Gopalakrishnan to preside over the Society for a two-year term as President, IWRS. The IWRS is composed of individuals and institutions actively involved in water resources sector and is of a multi-



disciplinary character with several Local Centres spread throughout the country.

The aims and objectives of IWRS encompass

- The advancement of research, planning, development, management and education, as well as establishment of a common meeting group for physical, biological and social scientists, engineers and other persons, concerned with water resources.
- Remaining as a Focal point for the collection, organization and dissemination of ideas and information relating to the broad spectrum of water problems.

- Providing necessary forum for communication in water resources science and technology through its meetings and publication and
- honouring individuals for their pioneering and meritorious contribution in the field of water resources, by electing them as honorary Life Members or inviting them to be patrons of the Society.

IWRS maintains a close liaison with the International Water Resources Association and other National and International Institutions working with allied objectives.

Summary Report of the 21st European Regional Conference of ICID

21st European Regional Conference of ICID was held from 15 to 19 May 2005 at Frankfurt (Oder), Germany and Slubice, Poland, under the patronage of the Federal Minister for Consumer Protection, Food, and Agriculture of the Federal Republic of Germany and the Brandenburg Minister for Rural Development, Environment, and Consumer Protection. The event was organised by the German National Committee (GECID) in cooperation with the Polish National Committee (POCID).

The conference was attended by 225 experts from 20 European and 8 Non-European countries at the Kleist Forum in Frankfurt (Oder). Funds were made available by the German Federal Ministry of Education and Research and the Deutsche Forschungsgemeinschaft for attendance of 44 Young Professionals from selected East European, Asian, and African countries, of whom 35 could participate. Further Young Professionals came from Western and Northern European Countries. They had ample opportunity to interact and share their experiences. During a special forum, many of them stated that

they felt encouraged to participate in the activities of their ICID National Committees and will like to do so in future ICID events.

The theme of the Conference was "Integrated Land and Water Management: Towards Sustainable Rural Development", wherein a total of 108 papers and 68 posters were presented in various sessions on important topics like :

1. Water Resources Protection (Chair persons F. Dolezal, W. Mioduszewski, W. Werner),
2. Flood Management (E. Lübbe),
3. Irrigation and Drainage (P. Kovalenko, A. Maziliauskas, O. Zhovtonog, G. Guluyk),
4. Drought and Drought Management (L. Vermes, L. Pereira),
5. Integrated Land and Water Management (F. Ligetvari, B. Schultz, D. Zavgorodnyaya), and
6. History of Irrigation, Drainage, and Flood Control (H. Fahlbusch).

The current problems related to integrated management of land and water resources management with a focus on Central and Eastern European countries were presented even beyond this region. Specific problems of integrated management under transitional economies were brought out including aspects of multifunctional landscapes and requirements for harmonised co-action of agricultural land use, integrated river basin management (e. g. according to the EU Water Framework Directive), protection of nature and landscapes, and development of tourism and infrastructure for sustaining the rural areas. All presented papers and posters along with a batch of 19 paper-only contributions were included in Conference Proceedings CD that was given to the participants and are also available on the conference website www.erc2005.org.

Five different full-day excursion tours were organized. Four of them presented examples of integrated resources management, land and water management, harmonisation and conflicts of agriculture, protection

of nature, and importantly conservation of cultural heritage.

During the first plenary session, welcome addresses and statements were made by representatives of the German and Polish governments, by the Brandenburg State Minister of Rural Development, Environment, and Consumer Protection, and others. Plenary lectures were held on water budget at landscape scale, on



Participants of the 21st European Regional Conference

multilateral tasks of the International Odra Commission, regional water management in Poland, and on nutrient loads of the Odra River. The closing plenary session gave room for revenues and closing remarks and ended with an outlook and invitation, given by Mrs. M.E. Scarascia, to the 22nd European Regional Conference to be held during September 2007 at Pavia and Rome, Italy.

On the occasion of the conference, a meeting of the European Regional Working Group was held. Among others, the Chairman of the European Work Team on Drought, L. Vermes, gave a detailed overview of the activities of the Work Team within the Drought Mapping Project. Further-on, the Working Group offered its congratulations to its initiator and long-year Chairman, W. Dirksen, who celebrated his 65th birthday in February 2005.

The ICID Working Group on Integrated Land and Water Resources Management also had an interim meeting in Frankfurt.

The European Regional

Conference was preceded by the second workshop of the project on Irrigation Management Transfer in European Countries of Transition, from 13 to 15 May 2005 at S³ubice. This project was an activity of the ERWG Work Team on Sustainable Irrigation Management.

As an outcome of the European Regional Conference, the Final Note

on the Frankfurt (Oder) – S³ubice Conference was elaborated as a draft and discussed during the closing plenary session. Among others, the participants pointed out the interaction of water availability and land use and the impact of land use on water quality. Integrated land and water resources management has to coordinate all activities concerning agricultural land use and nature protection with water management practices at regional scale and catchment scale. Future tasks within the drainage sector will rise from the necessity to mitigate negative impacts on the environment. The draft is launched on the Internet (www.erc2005.org) for a continued discussion so that a final version could be presented at the forthcoming ICID Congress at Beijing in September 2005.

Numerous private companies, associations and ministries took part in the conference leading to good performance. Thirteen of the partners participated in the exhibition which was arranged at the conference venue and for providing opportunities for additional interesting information.

The conference website www.erc2005.org will be continued to provide the Conference Proceedings and the Final Note as mentioned above.

World Agricultural Forum's 4th World Congress 2005 16-18 May 2005, St. Louis, USA

The 4th World Congress 2005 of the World Agricultural Forum (WAF) was held in St. Louis, Missouri, USA, from 16-18 May 2005 on the theme- "The Key to Peace, Security and Growth: Local, Regional and Global Agri-Food Systems." Over 200 top leaders from governments, non-governmental and intergovernmental organizations, the corporate and academic institutions, as well as Chief Executive Officers (CEOs) of multi-national companies in agriculture and agri-foods met at the 2005 World Congress. Over the three-day period, the participants discussed issues in agriculture and agri-food systems, including their role in promoting economic and sustainable growth. Key topics examined during various panels of the Congress included national security and



Dr. M. Ait Kadi (right), Rt. Hon. James Bolger (2nd from left) and Mr. K.N. Sharma (left) at the WAF Congress

global peace; economic growth; integration of local, regional and global markets; national political interests and international agreements; fresh water; bio-energy; technology transfer for growth and rural development; market-driven agri-

food systems; financing for growth; and partnerships.

Mr. Leonard Guarraia, Chairman and CEO, WAF, opened the Congress by stressing that food was an essential element of a country's economic and political viability. He pointed out that countries with the least developed agri-food systems were among the least developed countries (LDCs) and could not participate fully in the world trading system. In his keynote address on "Changing Demographics – A Wake Up Call", Rt. Hon. James B. Bolger, Chairman of the Advisory Board, WAF, and Former Prime Minister of New Zealand said that peace and prosperity depended on the future of agriculture.

ICID was represented at the WAF Congress by Mr. K.N. Sharma, Secretary ICID, who actively participated in the deliberations to highlight the role of irrigation in meeting the food security and poverty alleviation goals. Dr. Mohammed Ait-Kadi (Morocco), Vice President Hon. ICID and President of the General Council of Agricultural Development, Ministry of Agriculture, Morocco who is a member of the Advisory Board of WAF, also attended the Congress.

Dr. Roberto Lenton, Chair of the Technical Committee for Global Water Resources,

The Earth Institute at Columbia University, chaired the panel on water issues, focusing on fresh water scarcity and the supply and demand side. He said rainwater harvesting should be promoted. He noted that water had an increasingly global dimension through trade in virtual water and water exports. Dr. Ait-Kadi pointed to the need for integrated water resource management and increased public and private investment and development assistance. Mr. Sharma emphasised the need to build up food security in the developing countries which could happen by achieving food

sufficiency, complemented by proper governance. He said that in the IWRM, the development of water infrastructure was as important as management of water, especially in the developing countries and in Africa. Mr. David Seckler, Director of Winrock Water, Winrock International and former DG, IWMI said that by 2020, one third of the world population will live in countries with physical water scarcity, depending on water imports. He mentioned that new dams were needed for water management.

Visitors to the Central Office

Vice President Hon. Peter S. Lee

On 10 March 2005, Vice President Hon. Peter S. Lee visited the Central Office and met with Mr. K.N. Sharma, Secretary and Mr. S.P. Goyal, Joint Secretary. He discussed several issues during the meeting such as implications of new fringe benefit tax on ICID budget, interest-free loan offer from Yes Bank for constructing a meeting room; panel for second Best Performing National Committee Award; and National Committees in arrears of annual subscription. During the meeting, he touched the issue of working of workbodies and observed that they should focus on WG mandate without prolonging

for years, the same agenda items and spend lesser time on administrative issues. The Central Office apprised Mr. Lee about ICID's involvement in World Water Council. Mr. Lee advised the Central Office to bring the item related to receipts from Congress and IEC meetings for consideration at Beijing meeting.

President Hon. Aly Shady

Mr. Aly Shady, President Hon. ICID and President, IWRA had discussions with Secretary General M. Gopalakrishnan and Secretary K.N. Sharma on various matters of mutual interest during his visit to Central Office. They also discussed further steps with regard to the Task force on ICID's



inputs to WWF-4, as well as the report of Special Committee for Amendment to Constitution and Bylaws, which President Hon. Aly Shady Chairs. It may be recalled that ICID has a standing MoU with IWRA on 'Mutual Collaborative Efforts in Water Related Matters'.

19th ICID Congress and 56th IEC Meeting 10-18 September 2005, Beijing, China

The 19th ICID Congress and the 56th International Executive Council (IEC) meeting will be held from 10-18 September 2005 at Beijing, China. The theme of the Beijing Congress is "Use of Water and Land for Food and Environmental Sustainability". The Congress will address the following Topics and Sub-Topics under two Congress Questions, Special Session and Symposium.

QUESTION 52 : Improving Water and Land Management for Increasing Efficiency in Irrigated Agriculture

- 52.1 On-farm water and soil management
- 52.2 Performance evaluation and integrated management of irrigation and drainage systems
- 52.3 Conjunctive use of water to optimize food production
- 52.4 Policy options for water saving in irrigation
- 52.5 Management transfer and participatory irrigation and drainage management
- 52.6 Application of information

technology in irrigation and drainage management

QUESTION 53 : Harmonious Coexistence with Flood Water

- 53.1 Land use planning and its impact on flood and drought regime
- 53.2 Integrated planning and management of flood diversion, storage, retention and discharge areas
- 53.3 Adjusting urban and rural

development to reduce flood risks

53.4 Mechanisms for protection, relief and rehabilitation

53.5 Information technical systems and professional contingent for flood fighting

53.6 Case studies

SPECIAL SESSION : Legal and Institutional Challenges

- Institutional and legal issues in groundwater utilization;
- Institutional and legal frameworks for intensive job creation in water resources management projects;
- Mechanisms for equity in water distribution and conflict resolution;
- Institutional reforms in the irrigation sector;
- Water rights, water pricing and water markets;
- Institutional and legal aspects for management transfer and participatory irrigation and drainage management;
- Comprehensive water policies and institutional arrangement for reform implementation;
- Comprehensive water codes for sector legislation: Irrigation acts, drainage acts, etc;
- Legal steps to ensure environmental sustainability of irrigation and drainage;
- Legal aspects of conflict resolution in construction of irrigation and drainage facilities including dams.

SYMPOSIUM : Water Quality/ Salinity Management

- Water saving and salinity control in arid and semiarid regions;
- Controlling waterlogging and salinity through improved water management and adequate drainage;
- Water quality management in irrigated agriculture: combination of water management and agricultural practices to reduce leaching;
- Managing the disposal of drainage water to avoid pollution of receiving water bodies and damage of wetlands caused by salts and toxic agricultural chemicals;

- Establishing appropriate guidelines, rules and standards for managing the use/reuse of low quality water in irrigation;
- Surface and ground water quality monitoring, assessment and modeling;
- Method for managing leaching of salt accumulated in soil;
- Estimation of future degradation of soil and groundwater by accumulation of salt;
- Disposal/treatment of heavily contaminated water.

In addition to the above, the following international Workshops and Special Sessions will also be organized during the Congress.

- Workshop on “Water Saving Practices in Rice Paddy Cultivation”
- Workshop on Flood Management
- Special Session on Lake Chad
- Special Session on On-Farm Irrigation Technology
- Special Session on “Driving Research for Change in Irrigation and Drainage Practices”
- YPF Workshop
- Workshop on Benchmarking & Quality Assurance
- Workshop on “Guidance for ICID Handbook on Sustainable Development of Tidal Areas”
- Workshop on “Drainframe and their case studies”
- Workshop on “Multiple Roles of Irrigation Water”
- Workshop on “Strategies for Implementing Capacity Development”
- Workshop on Multiple Roles/ Diversity of Irrigation Water.

HISTORY SEMINAR : Management of Historical/Traditional Irrigation Projects

A History Seminar on “**Management of historical/traditional irrigation projects**” will also be organized by the WG-HIST of ICID.

1. Objective

Learn lessons from historical management of Irrigation, Drainage

and Flood Control Projects to identify sustainable system of management.

2. Background

Management of irrigation, drainage, and flood control system is more important than construction of these facilities per se. Small and traditional system, particularly rice irrigation system, has been maintained with the participation of local population for thousands of years without major problems. In contrast, modern system of major engineering works has not achieved expected performance and sometimes failed due to the lack of participation of local population and poor operation and maintenance.

3. Outline of discussion agenda

Questions are - what made the difference and how can we improve. This seminar is going to answer questions raised from following perspectives :

- Technical perspective (local adaptation of imported technology, failures and trial/errors, probability and natural disaster).
- Economic/financial perspective (irrigated agriculture for subsistence or for marketing, incentives for proper management).
- Institutional/organizational perspective (cooperation among users, conflict resolution, evolution of organization and rules, enforcement of rules, transparency, governance).
- Environmental perspective (harmony with nature, level of intervention into nature and associated damage, natural cycle and division of activities, internal and external resources).
- Regional perspective (humid and semi-arid/arid regions, flood control and salt control).

4. Preparation of 19th ICID Congress Transactions

The “summary and conclusions” for 275 papers were received in the Central Office on Congress Questions, Special Session and Symposium. After screening by the Special Committee consisting of General Reporters and Panel of Experts for the Congress

Questions 52 and 53 and Special Session, and the President for the Symposium, 138 papers were accepted for Oral Presentation and 71 papers for Poster Presentation. Out of 209 papers accepted for Oral/Poster Presentations, the Central Office has received 170 full-length papers for inclusion in the 19th ICID Congress Transactions. We are still awaiting for 9 full-length papers from some of the National Committees. Rest of the papers have either been withdrawn by authors or to be presented in the poster form only. The Central Office is busy in preparing Transactions of the 19th ICID Congress. Full text of the accepted papers for Oral/Poster Presentations will be published on CD-ROM. The printed transactions will contain all keynote addresses, general reports and abstracts of all papers.

5. Programme

The draft programme for the 19th ICID Congress and 56th IEC meeting as of now, which is still undergoing some minor changes, is given on page 7.

6. Awards

Watsave Awards 2005

The ICID WatSave Awards for the year 2005 will be presented at the 56th meeting of the International Executive Council (IEC) scheduled to be held in September 2005 at Beijing, China.

The Central Office, ICID has already invited nominations for the WatSave awards. The three categories of awards are: Technology, Innovative Water Management, and Young Professionals award. Each award carries a prize money of US\$2000 and a Citation. Nominations for the Awards are open to all professionals/ teams from ICID member countries as well as non-member countries, but the nomination must be made and validated by an active National Committee of ICID, who should be aware of the nominee's work.

For details of "Nomination Form", "Conditions and Criteria", "Evaluation Process" please visit the ICID website <<http://www.icid.org/awards.html>>.

Best Performing National Committee Award (BPNCA)

ICID had instituted a new Award in 2002 to recognize the best performing

ICID National Committee. The Award will be presented in the form of Revolving Shield and a Citation Plaque at every Congress triennially based on various facets demonstrated by the participating National Committees between two ICID Congresses over a three year period. The Revolving Shield will move to the next award winner every three years with an inscription about the past winner. The Citation Plaque will remain with the award winning National Committee. The first award was presented at the time of 18th ICID Congress, Montreal in July 2002 to Korean National Committee (KCID) for its outstanding achievements and contribution to ICID activities in the years 1999 to 2002.

The 2nd Best Performing ICID National Committee Award (BPNCA-2) [based on the National Committees' performance between 18th and 19th Congresses (2002-2005)] will be presented at Beijing (China).

Best Performing Workbody Award (BPWA)

The Best Performing Workbody Award (BPWA) was approved by the 54th IEC in Montpellier (France) in 2003 to be presented at every Congress based on various facets of performance demonstrated by the Workbodies in between the two Congresses. The 1st such Award will be presented in Beijing (China), 2005 for the work done by the Workbodies upto 2005. The ICID Central Office invited all ICID Workbodies to send their nominations for the Award, sending therewith information as sought to evaluate their performance. The Chairs of Workbodies were reminded periodically to apply for the 1st Award, if they so wished. A Panel of Judges was constituted by the IEC in Moscow in September 2004. Three Workbodies, namely, Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST), Working Group on Water Saving for Agriculture (WG-WATS), and Working Group on Sustainable Development of Tidal Areas (WG-SDTA) have applied for the Award.

These awards will be presented during the 56th IEC Meeting.

7. Exhibition

The 11th International Exhibition on Irrigation, Drainage and Flood Control

will be held in conjunction with the Congress, in which stalls from various countries, National Committees and international organizations will be set up to display their equipments, know-how and developments in the field of irrigation and drainage.

For participation and more information, please contact the Congress Secretariat :

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8. Study Tours

For visiting famous irrigation and flood control projects together with places of historical interest, scenic areas and nature reserves, the CNCID has planned seven pre and post Congress study tours for the delegates of 19th ICID Congress and 56th IEC. The routes are :

- A Sept. 05-08 / Sept. 19-22, **Beijing-Xi'an**
- B Sept. 05-09 / Sept. 19-23, **Sichuan-Chongqing-Yangtze Cruise-Yichang**
- C Sept. 04-09 / Sept. 19-24, **Beijing-Kunming-Dali-Lijiang**
- D Sept. 05-09 / Sept. 19-23, **Beijing-Yellow Mountain-Suzhou**
- E Sept. 04-09 / Sept. 19-24, **Beijing-Guiyang-Guilin**
- F Sept. 04-09 / Sept. 19-24, **Beijing-Dengfeng-Luoyang**
- G Sept. 05-09 / Sept. 19-23, **Beijing-Hangzhou-Shanghai**

The National Organizing Committee of the 19th ICID Congress and 56th IEC has appointed the Mandarin International Tours Co., LTD as the agents to organize the study tours of 19th ICID Congress. If there is any enquiry related to the study tours please **contact** with the Mandarin International Tours Co., LTD. The **contact** details are as follows :

Draft Program : 56th IEC and 19th ICID Congress

TIME	SAT, DAY-1 10 SEP	SUN, DAY-2 11 SEP	MON, DAY-3 12 SEP	TUE, DAY-4 13 SEP	WED, DAY-5 14 SEP	THU, DAY-6 15 SEP	FRI, DAY-7 16 SEP	SAT, DAY-9 17 SEP	SUN, DAY-9 18 SEP	MON, DAY-10 19 SEP	TIME		
08:00	09:00 – 17:00 • Arrival & Registration	09:00 – 17:00 Registration	09:00 – 17:00 • Registration • NC Displays	09:00 – 17:00 • Registration • NC Displays	08:00 – 09:00 • NC meeting	09:00 – 17:00 • Registration • Exhibition Opening	09:00 – 17:00 • Registration • Exhibition	08:00 – 18:00 • 1 day Tech. Tour	09:00 – 12:00 • Exhibition	Start of Study Tours	08:00		
09:30		09:00 – 12:30 • C-CONGR • WG-ILWRM • WG-ENV WG-IADWS WG-YPF • ASRWG • Workshop on Flood Magmt.	09:00 – 12:30 • History Seminar (Ses I) • PFC • SS DRCIDP • WG-SOCIO • WT-PQW • WG-ON-FARM • WG-SDTA • YPF Workshop	09:00 – 12:30 • Symposium – Water Q lty/Sal. • PCSPOA – Ses.I • C-PR&P • WG-CD • TF-IBWT • WG-CROP • WG-CAFM • Workshop on Benchmarking • Workshop on GIHSDTA • Workshop on Drainframe	08:00 – 18:00 • 1 Day Tech. Tour	09:00 – 12:30 • Opening Ceremony	09:00 – 10:30 • TF1:TF to guide ICID inputs to WWF-4	09:00 – 17:00 • Registration • Exhibition	09:00- 10:30 • Concluding Ses. Q52		09:30		
10:00					09:00 – 17:00 • Registration • NC Display	09:00-11:00 • Opening remarks	09:00 – 12:30 • Q52 Discussions • Q52.1	09:00 – 12:30 • IEC – Ses. I	11:00- 12:30 • Concluding Ses. Q53		10:00		
10:30					09:00 – 12:30 • PCTA, Ses. I	11:30 – 12:30 • N.D. Gulhati Mem. Lecture	• Q52.2 • Q52.3 • Q52.4 • Q52.5 • Q52.6 • Q53 – Poster Ses.				10:30		
11:00		11:00 – 12:30 MT-JOUR			• Workshop on Multiple Roles • Workshop on DICDS, Ses. I • SS : Legal & Inst. Challenges –I, Ses. I • SS : ACIAR - I • SS : IWIKPC - I						11:00		
11:30											11:30		
12:00											12:00		
12:30	LUNCH BREAK										12:30		
13:00	12:30 – 13:30										13:00		
13:30	16:00 – 18:00 • Staff Committee	09:00 – 17:00 Registration 13:30 – 17:00 • TF-LDCsAS • ST-ARAL • ERWG • AMRWG • EB-JOUR • WG-WATS • Workshop on Flood Mgmt.	09:00 – 17:00 • Registration • NC Displays 13:30 – 16:00 • CPSP I : (Egypt, Mexico & Pakistan) 13:30 – 17:00 • History Seminar (Ses II) • AC-IPTRID • WG-DMIS • WG-CBTE • WG-DRG • WG-R&D 16:00 – 17:30 • CPSP I : (China & India), WATERSIM	09:00 – 17:00 • Registration • NC Displays 13:30 – 17:00 • Symposium – Water Quality/Sal. Ses. II • PCSPOA, Ses. I • CG-IPTRID • WG-HIST • Ses. Off, P.E of Q.52, Q.53 • Workshop GIHSDTA Ses.II • Workshop on Benchmarking, Ses. II 17:00 – 18:00 • MC-IPTRID • TF1:TF to guide ICID inputs to WWF-4	08:00 – 18:00 • 1 Day Tech. Tour	09:00 – 17:00 • Registration • NC Display 13:30 – 17:00 • PCTA, Ses. II • Workshop on Multiple Role, Ses. 2 • Workshop on DICDS, Ses. II • SS : Legal and Inst. Chal. Ses.II • SS : ACIAR, Ses II • SS : IWIKPC, Ses. II	09:00 – 17:00 • Registration • Exhibition 13:30 – 14:00 • Keynote Speaker Q52 14:00 – 15:15 • Presentation of GR –Q52 15:45-16:15 • Keynote Speaker Q53 16:15-16:25 • Message, Comm-issioner, USBR 16:25-17:25 • Presentation of GR –Q53	09:00 – 17:00 • Registration • Exhibition 13:30 – 17:00 • Q53 Discussions • Q53.1 • Q53.2 • Q53.3 • Q53.4 • Q53.5 • Q53.6 • Q52 – Poster Session 17:00 – 18:30 • Office Bearers Committee	08:00 – 18:00 • 1 day Tech. Tour	09:00 – 17:00 • Registration • Exhibition 13:30 – 17:00 • IEC – Ses. II	13:30 – 17:00 • Closing Ceremony 13:30- 13:50 • Pres. of condu. & recommendations 13:50 – 14:00 • Pres. Beijing Declaration 14:00 – 14:20 • Pres. of Awards 14:20 – 14:30 • Best NC Award 14:30 – 15:00 • Address by President, ICID 15:00 – 15:15 • Address by President Elect 15:15 – 15:45 • Address by EC, Org. Commt.	Study Tours	13:30
14:00											14:00		
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18:00	18:00 – 20:00 • Mgmt. Board										18:00		
18:30											18:30		
19:00		Welcome Reception : CNCID, China	Reception by : ITAL-ICID	Reception by : MANCID	Reception to be announced	Welcome Reception : Org. Committee	Reception to be announced	Reception to be announced	Reception to be announced	18:30 – 22:00 Farewell Dinner & Cultural Show	19:00		
20:00											20:00		
21:00											21:00		

SPL. WORKSHOP/ WORKSHOPS : **YPF** Workshop on use of water and land for food and environmental sustainability – Role of young professionals; **Benchmarking** and quality assurance; **GIHSDTA** - Guidance for ICID handbook on sustainable development of tidal areas; **Drainframe** and their case studies; Multiple roles/diversity of irrigation water; **DICDS** – Design and implementation of capacity development strategies; and **SICD** - Strategies for implementing capacity development. **SPECIAL SESSIONS (SS)** : Legal and institutional challenges; **IWIKPC** - Introduction of water issues and key projects in China; **DRCIDP** - Driving research for change in irrigation and drainage practices; **CA** Special Session (IWM); **OLWM** – Outcome of land & water management of the 7th Inter-Regional Conference on Environment & Water (China Agr. University); and **ON-FARM** - On-farm irrigation technology. **SYMPOSIUM** : Water quality/salinity management; **HISTORY SEMINAR** : Management of historical/traditional irrigation projects.

Miss Liu Juan
Director of the Mandarin
International Tours Co., LTD
No. 21 Chegongzhuang Rd.,
Xin Da Du Hotel
Beijing 100044, China
Tel: 86-10-88371389,
86-10-68319988-15147
Fax: 86-10-88371390
Mobile: 86-13801358466
Email: mandarin_mailbj@163.com
Website: www.mandarintour.com

9. Registration

The preparations for the 56th IEC Meeting and 19th ICID Congress, which will be held in Beijing, China from 10-18 September 2005 are in full swing. The CNCID has drawn up an excellent programme for the Congress participants. As of now, it is expected that around 1000 delegates from various countries, including ICID member countries, international organizations, etc. will be gathering in Beijing to attend the Congress.

We have the pleasure in welcoming all water-related professionals and experts in the fields of irrigation, drainage and flood control for attending the 19th ICID Congress and 56th IEC meeting of ICID. Your presence would immensely contribute to evolving useful measures to tackle the problems being faced by the world community in the water sector.

As the time left is very little, all are requested to confirm their participation to the Organizing Committee, under intimation to the Central Office, at the following address by returning the registration form, which is available on ICID Website: <http://www.icid.org> and Congress website <http://www.icid2005.org>.

Congress Secretariat

CICST – Attn: Ms. Jin FANG
Room 717, 86 Xueyuan Nanlu
Haidian District, Beijing 100081
China
Tel: +86-10-62174061
Fax: +86-10-62180141
Email: registration@icid2005.org

CNCID – Attn: Ms. Jianxin MU
No. West Chegongzhuang Road
Beijing, 100044
China

Tel: +86-10-68457179
Fax: +86-10-68457179
Email: registration@icid2005.org

The facility of on-line registration is also provided through ICID Website and Congress website and filled-in registration form can be sent through e-mail or fax as convenient.

For more information, please contact ICID Central Office or the Chinese National Committee on Irrigation and Drainage, No. 20 West Chegongzhuang Road, Beijing 100044, People's Republic of China. Tel : +86 10 6841 5522 / 6841 6506; Fax : +86 10 68457179. E-mail : cncid@iwhr.com or National Organizing Committee, 19th ICID Congress and 56th IEC Meeting, Beijing 2005, China. Tel: 86 10 68415522 ext. 6506, Fax: 86 10 68457179, E-mail: Beijing2005@cncid.org or visit the Website : <http://www.icid2005.org>.

Preparation of the 19th ICID Congress – A report from CNCID

The preparations for the 19th ICID Congress and the 56th IEC meeting are in full swing. Chaired by Mr. Zhai Haohui, the Vice Minister of Water Resources, the National Organizing Committee of the 19th ICID Congress



The meeting of Secretariat of the National Organizing Committee

and 56th IEC holds monthly meetings to review and coordinate the preparatory work. The following progress has been made since the last report.

- The final programme of the 19th ICID Congress and 56th IEC has been finalized. The programme reflects all comments from ICID working groups, related organizations and experts.

The final programme has been uploaded on the Congress website www.icid2005.org.

- The meeting rooms have been allocated for meetings of all working groups/teams/committees/task forces of ICID, IEC meeting and various other sessions.
- To facilitate a better understanding about water regime of China, the CNCID will arrange a Special Session on 14 September 2005. The presentations to this effect have been finalized, that include Three Gorges Project, South to North Water Transfer Project, Water Resources and Ecosystem, Water Saving Irrigation and Rural Water Supply.
- The relevant local organizations have been mobilized to make the pre-congress and post-congress study tours fruitful and successful. The information on the study tours is updated timely on the Congress website.
- About 100 volunteers have been selected by the Secretariat of the National Organizing Committee to provide best services and assist in the various activities of the 19th ICID congress and 56th IEC.
- The Secretariat of the Organizing Committee of the 19th ICID Congress has made arrangements to pick up all the participants of the 56th IEC Meeting and 19th ICID Congress from Beijing International Airport.

In case of any questions please don't hesitate in contacting the Secretariat of the National Organizing Committee. Their **contact** details are : For registration, accommodation and exhibit issues registration@icid2005.org; for information and other questions, the contact email is info@icid2005.org or cncid@iwhr.com; the contact email of the Executive Secretary General is gaozhy@icid2005.org. The phone numbers of the secretariat are (86-10) 68457179 or 68711076. The Fax numbers of the secretariat are (86-10) 68451169 or 68457179. The phone number of the Executive Secretary General is (86-10) 68423313 or 68786599. We are eagerly looking forward to host all of you in China.

Workshop on Flood Management 11 September 2005, Beijing, China

The Working Group on Comprehensive Approaches to Flood Management (WG-CAFM) will organize a Workshop on Flood Management, at Beijing, China on Sunday, September 11, 2005.

Many contributions are expected from the host country China, in addition to India, Japan and USA to be presented in the morning session of the Workshop. The keynote address will be delivered by Prof. dr. Bart Schultz. Afternoon session will have contributions/presentations from Hungary, Iran, Spain, The Netherlands and UK.

All presentations accommodate the topic of Question 53 of the 19th ICID Congress "Harmonic coexistence with floods". Most speakers are members of the WG-CAFM (representatives from India, Iran, Japan, Spain, UK and USA). Prof. Ijjas from Hungary will present the new Hungarian water legislation (based on the EU-directives) focusing on flood aspects. Dr. Hans van Duivendijk, former Chairman, WG-CAFM will present the two manuals recently published by ICID.

The presentations so made will be published as Workshop proceedings on a CD-Rom to be distributed in Beijing during the ICID events. All speakers are requested to make 30 hard copies of their presentations for distribution amongst the participants.

For more information, please **contact**: Mr. Dick de Bruin, Chairman, WG-CAFM at his e-mail address: d.dbruin@sdg.rws.minvenw.nl; dick.debruin@wanadoo.nl

Special Session on Country Policy Support Programme (CPSP) Sessions I & II, Beijing, China, 11-12 September 2005

The Country Policy Support Programme (CPSP) launched by ICID in 2002 with a funding support from the Government of The Netherlands is nearing completion. CPSP in its first phase (2002-2005) envisaged a detailed assessment in two countries i.e. China and India to be followed up later in Egypt, Mexico and Pakistan, as Phase II. The CPSP basically aims at assessing and integrating water needs for three sectors viz. food, people and nature for the present and for the year 2025 with a goal to contribute to develop effective options for water resources development and management to achieve an acceptable food security level and sustainable rural

development. With the coordination support of ICID Central Office, the programme is executed by the five participating National Committees viz. CNCID (China), ENCID (Egypt), INCID (India), MXCID (Mexico), and PANCID (Pakistan), partnering International Organizations, Agencies, National and State/Provincial Governments as required besides other stakeholders.

A Special Session on CPSP to present the outcome of the CPSP phase I studies is scheduled to be held at Beijing on the occasion of 56th IEC/ 19th ICID Congress. The session will be held on two days viz. on 11th September 2005

from 16.00 to 17.30 hours and on 12th September 2005 from 13.30 to 16.00 hours. On 11th September there will be presentations on studies carried out in China and India. A presentation by IWMI on WATERSIM modeling approach is also proposed to be held during the session. On 12th September National Committees of ENCID, MXCID, and PANCID will present outcome of their National Consultations. Various reports brought out as an outcome of the CPSP studies in the five participating countries will be distributed during the session. For further details, please visit the ICID website <<http://www.icid.org/cpsp.html>> and/or **contact** ICID <icid@icid.org>.

Special Session on On-Farm Irrigation Technology 12 September 2005, Beijing, China

Israeli National Committee of ICID (ISCID) will organize a Special Session on On-Farm Irrigation Technology on Monday, 12 September 2005 from 17.00-18.30 hours. The Special Session will be organized under the aegis of Working Group on On-Farm Irrigation

Systems (WG-ON-FARM). The following topics will be covered in the Special Session.

Israel's agriculture – Success under stressful conditions

(i) The Israeli experience in transition

from flood irrigation to more efficient and economical techniques (benefits to the plant, environment and the farmer).

(ii) National water management- the Israeli government's role in direction and incentives for efficient and

- economical usage of water for agriculture.
- (iii) Augmentation of water resources for irrigation (harvesting flood water and usage of brackish water)
- (iv) Crop management – the transition to cultivation of high –added- value crops.
- (v) The close cooperation between Israeli researchers, extension agents, farmers and agriculture-related industries which has fostered a market- oriented agribusiness that exports its Agrotechnology solutions worldwide.
- (vi) Environmental advantages in usage of advanced irrigation systems.
- A question-answer session will be there prior to the conclusion of the Special Session.
- For more information, please **contact:** Mr. Ronit Golovaty, Israeli National Committee, ICID (ISCID), Executive Agrotechnology, The Israel Export & International Cooperation Institute, 29 Hamered Street, Tel-Aviv 68125, Israel. Tel: +972-03-5142907; Fax: +972-03-5142985; E-mail: golovaty@ export.gov.il.

Workshop on ‘Use of Water and Land for Food and Environmental Sustainability – Role of Young Professionals’ 12 September 2005, Beijing, China

The Working Group on Young Irrigation Professionals Forum (WG-YPF) of the International Commission on Irrigation and Drainage (ICID) is organizing a one-day Workshop on “Use of Water and Land for Food and Environmental Sustainability – Role of Young Professionals” in conjunction with the 56th IEC Meeting and 19th ICID Congress to be held in Beijing, China in September 2005.

All young professionals from ICID National Committees and International Organizations are invited to submit papers on any of the following sub-themes of the workshop :

- Use of Advanced Technology: Use of IT, Remote Sensing, GIS, Automation, Benchmarking etc.

- Public-Private Sector Partnership: Private Sector Participation, Participatory Irrigation Management, O&M Contracting, etc.
- Water Saving in Irrigation: - Adoption of High Efficiency Techniques Education and Capacity Building, Innovative Research, etc.
- Water Quality Management and Environmental Sustainability: - Water Quality Monitoring, Reuse of Domestic and Industrial Wastewater for Irrigation, Environment Sustainability of Irrigation and Drainage Project etc.

The Chinese National Committee of ICID (CNCID) will offer reduction in the registration fee, etc. for the young professionals.

All National Committees of ICID and International Organizations are requested to disseminate information about the YPF Workshop among their young professionals so that they can prepare and submit their scientific papers for presentation at the Workshop. The last date for receipt of the full-length paper was 30 April 2005. However, the interested young professionals can still submit their scientific papers for presentation at the Workshop, preferably by 15th June 2005.

For more information about the Workshop, please **contact:** Dr. A.R. Salamat, Chairman, WG-YPF. E-mail : I R N C I D @ n e d a . n e t . i r ; salamat_ar@yahoo.com.

International Workshop on Evaluation of the Draft ICID Guidance Handbook on SDTA, 13 September 2005, Beijing, China

ICID Working Group on Sustainable Development of Tidal Areas (WG-SDTA) will organize a one-day International Workshop on “Evaluation of the Draft ICID Guidance Handbook on SDTA” at Beijing, China on Tuesday, 13 September 2005.

Background and Objectives

Inspite of severe warnings on tidal surge, concern on green house effect and Global hazards such as Tsunami

invasion in last December, as also the flood damages in the tidal areas have inhibited expansion of the land and water resources for human being for hundreds of decades in the world. The coastal zone comprises only 3 % of the earth’s surface, but contains a high amount of its assets while three quarters of world population will be living within 100 km of the sea by 2025. Due to the needs of more land and water, the tidal areas in the world have not only been developed for

agriculture, but also for fishery and trade spaces. As natural resources on earth, tidal areas should on the one hand be protected and developed in a sustainable way on the other.

Based on this view, ICID WG-SDTA organized International Workshops on “Sustainable Development of Tidal Areas” during ICID Montreal Congress in 2002 to Moscow IEC in 2004. In the first Workshop, the issues were: Integrated approaches for sustainable

agricultural development, Water quality and management and Historic aspects of tideland development. In the second Workshop at Montpellier Conference, it was titled "Wise Use and Environmental Conservation of the Tidal Areas" to discuss Operation and maintenance issues, Physics and Biotic characteristics in the areas. In the third Workshop at Moscow, the issue was 'Socio-economic Management and Stakeholder Participation for Agriculture in Tidal Areas'.

The objective of the previous Workshops were to bring together the experts, professionals and practitioners in the field of coastal engineering to seek their opinions on production system, environmental conservation, community participation and socio-economic impacts for sustainable development of tidal areas. Output from the workshops would be included in the Handbook of Sustainable Development of Tidal Areas to be published in 2007.

For the preparation of the Handbook of SDTA, the 5th Workshop on SDTA is titled "Evaluation of Draft ICID Guidance Handbook on SDTA". In the workshop, three types of contributors are invited for publication of the Handbook of SDTA.

Type 1 : Overall compilation and editing of each chapter by particular country members

- Chapter1. Introduction
Jonathan Simm/Henk Ritzema(UK and The Netherlands)
- Chapter2. Aspects of managing development of tidal areas

Park Sang Hyun/ Eo Daesu (Korea)

- Chapter 3. Tidal and lowland features
(Indonesia/Malaysia)
- Chapter 4. Existing natural processes
(China to lead, with support from India and UK)
- Chapter 5. Engineering for sustainable development of tidal areas
Prof./Dr. Shikasyo (Kyusyu Univ. Japan)
- Chapter 6. Tidal reclamation and their impact on natural processes
(Germany, FAO)
- Chapter 7. Integrated decision support framework
Henk Ritzema/ Jonathan Simm (UK and the Netherlands)

It is requested that the editors or leaders of each Chapter would make it convenient to give presentations in the Workshop.

Type 2 : Contributions for the sub-chapters

It would be desirable that the authors or editors give substantial presentations on the preparation of the subchapters in the Workshop.

Type 3 : Case studies

Each country members will give their presentations on the following case studies:

- China – coastal reclamation in North Jiangsu province, Yellow River delta and
- Qiantong Jiang reclamation on river mouth in Zhejaing province

- Germany – land reclamation in Meldorf Bight
- Great Britain – managed realignment projects
- Japan – Kameda polder, Ariake Bay and Hachirogata
- Korea – Overview of Saemangeum project
- Malaysia – Muda Irrigation Scheme
- The Netherlands

It is anticipated that results of the study or perception of Tsunami disasters in last December would be routed through the related national committees.

For the proceedings of the Workshop, the length of each main chapter, related subchapters of the papers and individual case studies would be at the most 10 pages for preparatory work.

Important Deadlines

Receipt of full text of the papers in electronic format – **30th July 2005.**

The publication of the 4th Workshop Proceedings will be in cooperation with Korean National Committee (KCID) and made available to participants at registration in Beijing.

For more information, please **contact** :
Ir. Hendrik P. Ritzema, Secretary, WG-SDTA, International Institute for Land Reclamation and Improvement/ILRI, ALTERRA, PO box 47, 6700, AA Wageningen, the Netherlands. Tel : +31-317-495549; Fax: +31-317-495590; Email: Henk.Ritzema@wur.nl.

International Workshop on Design and Implementation of Capacity Development Strategies, 14 September 2005, Beijing, China

The ICID Working Group on Capacity Building, Training & Education (WG-CBTE) with the support of IPTRID-FAO will organize a one-day International Workshop on "Design and Implementation of Capacity Development Strategies" on

Wednesday, 14 September 2005 in Beijing, China during the 19th ICID Congress.

The Workshop will have the following objectives:

- First, to present a general overview on how Capacity Development activities are being practised in developing countries, including steps followed when deciding to invest in capacity development programmes and how to

translate the theory into practical terms and concrete actions.

- Second, to provide some guidance for successfully engaging in the process of designing and implementing a capacity development strategy, presenting some real case studies in developing countries, and
- Third, to provide a platform for further collaboration and networking in the field of capacity development for agricultural water management.

Programme

The central feature of the workshop will be invited presentations from key agencies/institutions at the forefront of capacity development in agricultural water management. Discussions after each presentation and at the end of the workshop will enable the work to be taken further. It is anticipated that the workshop will include:

- A concept paper explaining the steps involved in the design/formulation of capacity development strategies and

some of the difficulties and challenges when passing from the theory to the practise;

- Five or six case studies reflecting real examples of design and/or implementation of the capacity development strategy in both developing and developed countries, with priority to the former. They will identify challenges and problems, and examples of success or failure while implementing the strategies.
- Associated plenary discussions will support the process of establishing guiding principles for development planning.

A suggested guideline for the case studies is provided; authors are encouraged to address the issues below

1. General context
2. Brief description of the Capacity Development needs assessment study at the system/environmental institution/individual level

3. Synthesis of steps taken for the Capacity Development Strategy/ Program design and implementation
4. Problems and difficulties encountered while implementing and successful experiences
5. Conclusions.

Participation

Those interested in making a presentation or contributing to the workshop are invited to contact the organising committee through :

- Tom Franks, Chairman, ICID Working Group on Capacity-Building, Training and Education (tom.franks@btinternet.com)
- Carlos Garcés, Programme Manager, IPTRID (Carlos.Garces@fao.org)
- Sonia Tato, Technical Officer, IPTRID (Sonia.Tato@fao.org)

To register your interest in attending the workshop, please e-mail : Edith.Mahabir@fao.org. For information on the ICID Congress, visit the website www.icid2005.org.

Workshop on 'Multiple Roles/Diversity of Irrigation Water' 17 September 2005, Beijing, China

The Workshop on "Multiple/Diversified Roles of Irrigation Water Mechanism of manifestation and measures of enhancement/mitigation" will be organized by the Work Team for Studying Diversified/Multiple Roles of Irrigation Water in Beijing, China, 17 September 2005.

Objective

The objective of the Workshop is to synthesize country/institution experiences on understanding and analyzing multiple roles (positive and negative) of irrigation water in particular context to Asian Region and paddy field irrigation, and prepare position paper for WWF-4 in March 2006 in Mexico and the 3rd Asian Regional Conference in September 2006 in Malaysia.

Agenda (items for discussion)

- Mechanism of multiple role manifestation
- Method of quantifying multiple roles
- Approach for enhancing beneficial roles and mitigating negative impacts

- Methods of valuing benefits/negative impacts

Classification of multiple role manifestation from different sources

- Circulation of Water (Water purification, Nutrient use, GW recharge)
- Diversified uses of water/land (paddy fields): domestic uses (washing, snow melting, fire-fighting...), drinking, fish culture, transportation
- Environmental functions: secondary nature for bio-diversity (paddy fields: water body), CO2 absorption, Methane emission, Micro-climate
- Culture and Amenity: Landscape, Religion, Festival
- Negative impacts: Salinization, Waterlogging
- Socio-economic: Food Security, Employment opportunity, Poverty alleviation

Framework

One-day session of presentations

and discussions:

- 9 countries and one institution (provisional) including Australia, China, Chinese Taipei, India, Indonesia, Iran, Japan, Korea, Thailand and IWMI
- 20 minutes presentation from each country/institution and plenary discussion.

Schedule of abstract/paper preparation

Abstracts of papers (within 600 words) were invited by the coordinator of the Work Team (Hatcho: E-mail: hatcho@nara.kindai.ac.jp) upto **end of March, 2005**. Paper summarizing the findings of each country/institution within 20 pages (under ordinary format of preparing the paper by ICID) in electronic format (preferably in MicroSoft Word) should be received by the coordinator of the Work Team (Hatcho: E-mail: hatcho@nara.kindai.ac.jp) no later than May 31, 2005.

58th International Executive Council Meeting and 4th International Conference on Irrigation and Drainage, Sacramento, California, USA 30 September to 05 October 2007

ICID's 58th International Executive Council (IEC) meeting and USCID's 4th International Conference on Irrigation and Drainage will be organized at Sacramento, California, USA from 30th September to 5th October 2007. The program covers IEC meeting, ICID Workbody meetings, Workshops and Symposia, Exhibition, Technical Tours, Accompanying Persons Program, Cultural Events and Sightseeing Excursions, USCID's 4th International Conference on Irrigation and Drainage and Post-Conference Study Tours.

USCID's 4th International Conference on Irrigation and Drainage will be held from 3-5 October 2007 during the 58th IEC meeting. The proposed theme of the Conference is "Role of Irrigation and Drainage in a Sustainable Future". Proposed topics and subtopics include:

- ◆ Developing Sustainable Irrigation and Drainage Systems
 - Land and water supply sustainability
 - Governance and human resources development
 - Environmental impacts and drainage water disposal
- ◆ Application of Technology to Irrigation and Drainage Systems
 - Information technology applications
 - Modernization of planning and operations
 - Advances in irrigation and drainage technology
- ◆ Interaction of Irrigation and Drainage Systems with Society
 - World population and water productivity
 - Justifying continued investments in irrigation and drainage
 - Allocation of water among competing uses

A Call for Papers will be available in 2005. Visit the USCID website : www.uscid.org for latest information on the events or **contact** : Mr. Larry D. Stephens, Executive Vice President, U.S. Committee on Irrigation and Drainage, 1616 17th Street, #483, Denver, CO 80202 USA. Tel: 303-628-5430; Fax : 303-628-5431; E-mail : stephens@uscid.org.

Special Session on 'Driving Research for Change in Irrigation and Drainage Practices' 09.00-12.30, 12 September 2005 Beijing, China

Background

The special session has its roots in ICID meetings in Granada 1999, Montreal 2002 and Montpellier 2003, backed up by a questionnaire to national committees about R&D topics. There has been widespread agreement within

ICID that irrigation and drainage systems are not changing in accordance with the demands of present day scenario. R&D systems are struggling to cope with new demands and social transformations around irrigation and drainage. Water users and R&D workers are looking for

experiences and approaches that can bridge the gap between research and practice in irrigation and drainage. People are not aware of new partnerships and new issues in R&D. There has been a call for a complete rethink of R&D strategies around the pillars of knowledge, capacity building and communication. ICID has, therefore, planned to organize a special session during the ICID Congress (2005) through the efforts of WG-R&D. Another subtheme for future is to be discussed at a session in the 3rd Asian Regional Conference. The 21st Micro-Irrigation Conference in Malaysia, 2006 on Research and Development for Crop Production and Resource Conservation has also been fixed. We hope that the next 2006 session will take the discussions and draft papers of 2005 further ahead, and provide more specific regional focus and attention to micro-irrigation. A range of issues raised by various National Committees have been transmitted to the relevant working groups of ICID.

The WG-R&D had put out a call for papers in 2004 to its members. Nine papers from members or researchers working closely with them were received, reflecting on new emerging public agenda in Irrigation and Drainage R&D. The Special Session has been set for four subsessions, and a plenary. Each session has 2-3 papers that will also be discussed by a WG member and the audience in light of existing knowledge and wider relevance. The papers not only address topic field but also contribute to new understanding on linking knowledge and communications, seeking change in practices, research consortia and new approaches, user oriented research for planning and execution and methods for policy based and problem based.

The provisional programme of the Special Session is given below :

Introduction

Subsession 1 : Working for Policy-Based and Problem-Oriented R&D

The strategic planning for research on water use in agriculture – responding

to diverse needs of farmers in South Africa (*G.R. Backeberg and A.J. Sanewe*)

Research and development, science and technology, and capacity building programmes: building of linkages for new irrigation and water resource management questions (*Linden Vincent*)

Subsession 2 : R&D at the Environmental Interface

Environmental use of water – getting the science right (*Clarke Ballard*)

Disposal and management of saline drainage effluent (*Muhammad Nawaz Bhutta*)

Subsession 3 : New R&D Actors in Design and Management of Irrigation and Drainage Systems

Implementation of project and creation of artificial wetlands in the drainage basin of the Venice lagoon: theoretical criteria and field application (*Vincenzo Bixio*)

Use of RS&GIS For Operation of Irrigation Systems (A Case Study In Moghan Irrigation & Drainage Network, Iran) (*Ezzatollah Fahadi*)

Subsession 4 : User-Driven Research, Planning and Execution: Methodologies and Tools to Improve Irrigation Scheduling

The development and introduction of the decision support system for water supply (irry) in Dutch fruit production (*Harm Boesveld*)

Irrigation scheduling with the SWB model – from theory to practice (*J.G.*

Annandale, J.M. Steyn, N. Benadé, N.Z. Jovanovic, J.B. Stevens, R.J. Stirzaker and G.R. Backeberg)

Starting a dialogue between scientist and irrigator- lessons learnt from a simple wetting front detector (*R.J. Stirzaker, J.B. Stevens, J.G. Annandale, J.M. Steyn, and G.R. Backeberg*)

For more information, please **contact** : Prof. (Mrs.) L. Vincent, Chairperson, WG-R&D, Professor of Irrigation, Wageningen University, Department of Irrigation and Soil and Water Conservation, Nieuwe Kanaal 11, 6709 PA Wageningen, The Netherlands. Tel: +31 317 484195; Fax: +31 317 484759; E-mail: Linden.Vincent@wur.nl; linden.vincent@users.tct.wau.nl.

NEWS FROM NATIONAL COMMITTEES

Bangladesh (BANCID)

Mr. Sharif Rafiqul Islam, Director-General, Bangladesh Water Development Board assumed the office of the Chairman, Bangladesh National Committee of ICID (BANCID) from Mr. Mokhlesuzzaman with effect from 16 February 2005. His contact details are given below. ICID family extends its heartiest congratulations to Mr. Islam on his assumption as Chairman of BANCID. The contact details of Mr. Islam are given below :

Mr. Sharif Rafiqul Islam
Director-General, Bangladesh Water Development Board and, Chairman, Bangladesh National Committee of ICID (BANCID)
WAPDA Building, Motijheel C/A
Dhaka-1000

Tel : +880 2 9552194
Fax : +880 2 9564763

E-mail : cm-bwdb@bangla.net.

Canada (CANCID)

Atlantic tour of Irrigation and Water Management

The Eastern Canada Soil and Water Conservation Centre (ECSWCC) lead a multi-province (NB-NS-PE-NL) Atlantic tour of Irrigation and Water Management for Fred Kraft and Laurie Tollefson who were visiting the Atlantic region. During this pan Atlantic tour ECSWCC also met with professionals in Presque'Isle Maine who are very interested in international collaboration on water management as it pertain to the St John River international watershed. ECSWCC had participation in Newfoundland and Labrador from Abdel-Zaher who is an active member of CANSID and CWRA.

Laurie Tollefson, Manager of the AAFC Irrigation Centre in Outlook SK, made a very interesting presentation to the New Brunswick Branch CWRA session about "Irrigation and Water Management in Canada". He outlined in particular some of the history, experience and new developments with irrigation in western Canada. He also spoke briefly to the Branch about links between CANSID, CWRA and irrigation.

Brook Harker, a senior Soil and Water Resource Specialist with Agriculture and Agri-Food Canada (AAFC) in Regina, made a presentation about the new AAFC watershed evaluation of BMPs (WEBs) projects starting this year across Canada. WEBs is an AAFC-led initiative that seeks to quantify at a micro-watershed scale (<300 ha), the relative environmental and economic effect of selected agricultural 'Beneficial Management Practices' (BMPs) on water quality. Ducks Unlimited Canada, a key project partner, is also contributing funding. Studies will be conducted over the next 4 yrs (2004-2008), on seven sub-watershed sites across Canada. One of the sites to be studied is the Black Brook sub-watershed near Grand Falls in northwestern New Brunswick.

Sri Lanka

Sri Lanka National Committee on Irrigation and Drainage (SLNCID) has elected new office bearers for the session 2005-2006. The new office bearers are: Chairman - Eng. K.S.R. De Silva, Director General of Irrigation; Vice Chairman – Eng. B.M.S. Samarasekara, Additional Secretary, Ministry of Agriculture, Livestock, Lands and Irrigation; Hon. Secretary – Eng. Mrs. J. Amarakoon, Director, Irrigation

Department; and Council Members are Eng. S.H.C. De Silva, Eng. G.A. Godaliyedda, Eng. Miss. L. Haturusinghe, Eng. P.C. Senaratna, Eng. H.M. Jayathilaka and Eng. L.W. Seneviratne. ICID family extends hearty congratulations to new office bearers of SLNCID.

Switzerland (CH-AGRID)

The Swiss National Committee of ICID (CH-AGRID) has decided on an internal restructuring for efficiency and future activities. Exhaustive discussions, meetings and brainstorming sessions led to the Swiss National Commission on Agro-systems Engineering and Land Improvement (CH-AGRAM) being officially awarded the membership of the Swiss Academy of Technical Science (ASST), who now takes over the activities of the former association CH-AGRID. The new Commission comprised 15 members and a core committee of 3 experts, one each from academic and professional associations involved in the field of agricultural engineering.

President : Mr Claude-Alain Vuillerat, Agricultural Engineer, Director of a Private Consultant-Engineer Agency; Vice-President : Mr Robert Kaufmann, Agronomist, Agroscope FAT, Taenikon; **Treasurer** : Mr Andreas Schild, Agricultural Engineer, Swiss Federal Office of Agriculture in Berne.

This new Commission will pursue the mission of the previous association whose representatives (or National Points of Contacts-NPC) will participate at the international level memberships. Their addresses are as follows : **ICID** :

Professor André Musy, EPF Lausanne, ICID Vice-President; NPC Address : HYDRAM-ISTE-ENAC-EPFL, GR C1 565, Station no. 2, CH-1015 Lausanne, Switzerland. **EurAgEng** : Dr Walter Meier, Eglisau (Mr Robert Kaufmann, Agroscope FAT Taenikon); **CIGR** : Mr Michael Gysi, Vice-Director; NPC's address: Agroscope FAT, CH-8356 Taenikon.

More information can be obtained from the CH-AGRAM Secretariat. Postmail address: Bureau B+C Ingénieurs S.A., avenue du Casino 45, CH-1820 Montreux, Phone: +41 21 966 10 80, Fax. +41 21 966 10 89, Email: <vuillerat@vtx.ch>

Best wishes for the new commission, for ensuring efficient and pertinent developments in agricultural engineering field, both nationally and internationally.

USA (USCID)

3rd International Conference on Irrigation and Drainage, San Diego, California, USA, 30 March to 2 April 2005

Secretary General M. Gopalakrishnan, in response to an invitation of US National Committee on Irrigation and Drainage (USCID) attended the 3rd International Conference on Irrigation and Drainage on "Water District Management and Governance" in San Diego, California from 30 March to 2 April 2005. The conference had excellent contributions on water management issues from all over the globe. There was a particular focus on Water Users Associations and



Participants of the workshop during field study

Participatory Irrigation Management. About 65 case histories of Projects were considered. The organizers provided space in their program for Secretary General to introduce ICID's Country Policy Support Program (CPSP) and the BHIWA Model. Subsequent field trips enabled the participants to see two impressive irrigation projects in Imperial Valley. The new (parallel) All American canal works were visited. Imperial Irrigation District and Coachella rank amongst the best projects around the world that give valuable lessons in water management and efficient governance. Both the schemes have incorporated the latest State-of-the-Art technologies and equipment for monitoring and measurements in controlled streams. With the growing awareness for ecology and concerted attempt to bridge conflicting interests between urban, agricultural and ecological sectors by objective negotiations, American West Projects give interesting lessons. Secretary General was also an invitee to the meeting of US National Committee on Irrigation and Drainage (USCID), who held a special sitting to review their preparation for the 58th IEC meeting in Sacramento, 2007.

World Water Day Celebrations

World Water Day is celebrated worldwide on 22nd March. The international observance of World Water Day is an initiative that grew out of the 1992 United Nations Conference on Environment and Development (UNCED) in Rio de Janeiro. The United Nations General Assembly calls upon States to devote this day to concrete activities related to the

conservation and development of water resources in their national context, and for the UN to assist countries in organising their activities.

By declaring the years 2005 to 2015 as the International Decade of Water for Life, the UN seeks to set the world's goals on "a greater focus on water related issues,

while striving to ensure the participation of women in water-related development efforts, further cooperation at all levels to achieve water-related goals of the Millennium Declaration, Johannesburg Plan of Implementation of the World Summit for Sustainable Development and Agenda 21". The UN declared that the decade starts on 22 March on World Water Day this year. The time has come to take an oath to conserve water and contribute towards "An International Decade for Action : Water for Life".

Australia (ANCID)

The highlight of the Australian National Committee of ICID (ANCID) on World Water Day was that two projects out of the five that ANCID had submitted were among the 27 successful ones announced as part of the National Water Initiatives Communities Water Fund Program. One of the Projects, a reed bed irrigation project, utilizing effluent water at Roseworthy College in South Australia was among the seven announced by the Prime Minister as part of the Water Fund activities. An innovation in irrigation showcase was presented during World Water Day program. This showcase presented 12 innovators. The booklet can be downloaded from <http://www.nht.gov.au/publications/irrigatoin-brochure/index.html>. Six of the best of these have been made into an exciting video presentation highlighting the best of irrigation practices from around Australia using technology from hydroponics, to drip to surface and spray. (Source : Communication from ANCID).

Bangladesh (BANCID)

On the occasion of the World Water Day on 22 March, 2005 a Seminar was organized by the Bangladesh National Committee of the International Commission on Irrigation and Drainage (BANCID) at the Bangladesh University of Engineering and Technology (BUET). It was chaired by Professor Md. Alee Murtuza, Honourable Vice-Chancellor of BUET. In line with the current decade's theme "Water for Life" a keynote paper on "Water and Life in Bangladesh" was presented by Professor Muhammed Ali Bhuiyan, Vice-Chairman, BANCID and Head, Department of Water Resources Engineering, BUET. Three designated discussants: Mr. Tauhidul Anwar Khan, Member, Joint Rivers Commission, Dr. Ainun Nishat, Country Representative, IUCN and Dr. Asif Nazrul, Associate Professor, Department of Law, University of Dhaka discussed various aspects of water and life and highlighted the importance of appropriate water management on national and regional levels. Besides, lively discussions also took place among the participants on the floor. A large number of eminent experts, academics and scientists from different organizations and students of BUET attended the Seminar.

The following consensus emerged from the Seminar :

- The water availability in Bangladesh is highly variable. About 80% of the total water resources is available during the four monsoon months (June-September). Therefore, considering water availability in Bangladesh on a per capita per annum basis would naturally be misleading and should not be quoted as a reference.
- The Seminar noted that some people often quote the per capita annual water availability of Bangladesh as 19600 M3, which is not correct. The figure is 9400 M3. However the per capita average water availability during the dry months (January-April) is only about 696 M3 against a demand of about 1134 M3.
- Construction of a Barrage across the Ganges in Bangladesh should immediately be undertaken for sustenance of life and living of millions of people and maintenance of the ecological balance in the southwestern region of Bangladesh.
- Regional cooperation for basin-wide development and management of the Ganges, the Brahmaputra and the Meghna river waters is needed for the betterment of the lot of the people of this region.
- Further use of groundwater should immediately be discouraged in Bangladesh in view of wide spread arsenic contamination, which is posing a major health hazard in the country.
- Principles of Integrated Water Resources Management should be followed for balanced and sustainable development in Bangladesh. (Source : BANCID).

China (CNCID)

Ministry of Water Resources, China organized a symposium to celebrate the 13th "World Water Day" and 18th "China Water Week" in Beijing on the topic "Guarantee the safety of drinking water and maintenance for health and life". Mr. Wang Shucheng, Minister of Water

Resources highlighted the main achievements of 2004 such as – formulation of water-saving society; enhancing the protection of water resources and ecosystem; progress on flood control, drought relief and water



Participants at the symposium to celebrate the 13th "World Water Day" and 18th "China Water Week" in the Ministry of Water Resources, P.R. China

conservancy construction. The Minister emphasized the future task in water resources, namely, (i) assured availability of safe drinking water and maintenance of people's health (ii) further boost to water-saving society; (iii) linking development of water resources and the protection of ecosystem. The symposium was presided by Mr. Jing Zhenshu, Vice Minister of Water Resources and Mr. Zhai Haohui, Vice Minister of Water Resources made a keynote presentation. The symposium was attended by more than 50 professionals, managers and experts from the related government agencies and institutes. (Source : CNCID).

India (INCID)

World Water Day–2005 was celebrated on 22nd March, 2005 at Vigyan Bhawan, New Delhi in association with Central Water Commission and Central Ground Water Board. Mr. Priyaranjan Dasmunshi, Hon'ble Minister for Water Resources was the Chief Guest. Mr. Jai Prakash Narayan Yadav, Hon'ble Minister of State for Water Resources, Mrs. Sheila Dikshit, Hon'ble Chief Minister, Delhi, Professor, M. Tawfik, Director, UNESCO, New Delhi office , Mr. V.K. Duggal, Secretary, Water Resources, Mr. R. Jeyaseelan, Chairman, Central Water Commission, Mr. A. K. Goswami, President, Indian Water Resources Society, officers of Ministry of Water Resources, Central Water Commission, Planning Commission, ICID, besides prominent water experts participated in the function.

The Hon'ble Water Resources Minister highlighted the difficulties in managing the global water resources and informed that

uneven distribution as regards the geographical size and the population of the country poses a big challenge, as India with a share of 40 percent of world's water and 2.45 percent of world's land resources has to support about one sixth of world's population. He called for judicious apportionment of the available water resources and participation of people and all stakeholders in water management, which is the foremost agenda for achieving socio-economic and environmental commitments.

For making people aware on the issues and activities in water resources sector and for involvement and participation of the students in understanding the problems in water sector and coming out with solutions, the Minister announced institution of an award for students through an Essay competition on topics relating to water resources issues in India. The three winners of the competition would be awarded Rs.25,000/- each in cash, a citation and a designed trophy and their essays would be included in the publication to be released on the coming World Water Day. He has also announced media awards, one for the print media and another for electronic media for best research story on water.

Professor Tawfik informed that still more than 1.2 billion people lack access to safe drinking water, 2.3 billion people live without proper sanitation and more than 80 countries do not have proper plan for development and management of water. He informed that global water agenda currently hovers on providing safe drinking water to all; implementing integrated water resources management; strengthening water monitoring programmes and meeting the financial challenge.

During this function, the Water Resources Minister Presented Jain-INCID Sookshma Sinchai Puraskar – 2005 to Mr. Udayakumar, a graduate farmer of Coimbatore District, and a member of Agragara Samakulam Tank Water Users' Association, Tamil Nadu for his foresight in optimally utilizing the saline water of the area and demonstration of impacts of drip fertigation technology to the farmers in the region.

Subsequently, a technical session was also held on the occasion, in which Dr. Kanwar Sain Memorial Lecture was delivered by Dr. Kirit S. Parikh, Member, Planning Commission.

Malaysia (MANCID)

Malaysian National Committee on Irrigation and Drainage (MANCID) organized a conference on the theme "Water for Life" on 20-21 March 2005. Y. Bhg. Datuk Ir. Hj. Keizrul bin Abdullah, President, MANCID and ICID chaired the session. A keynote paper was presented by YB. Tuan Tuan Sazmi bin Miah, Parliament Secretary, Ministry of Natural Resources and Environment. Participants discussed various aspects of water and life and highlighted the better



Opening speech by MANCID Chairman Y. Bhg. Datuk Ir. Hj. Keizrul bin Abdullah

understanding of water resources and water management in Malaysia. About 14 papers dealing with water quality management, rainwater as a supplementing source, weather events, water resources assessment, relationship between turbidity and salinity, and case studies on rationalization of flood magnitude and storm event were presented. About 100 participants comprising eminent experts, professors, academicians and scientists from different organizations and students from local universities attended the conference. (Source : MANCID).

Pakistan (PANCID)

The Pakistan National Committee on Irrigation and Drainage (PANCID) in cooperation with The Institution of Engineers, Pakistan organized a seminar on 22 March 2005 to observe the World Water Day. The main theme of the seminar was "Water for Life".

The speakers expressed their concern on continuous reduction in the availability of safe drinking water, water wastages and losses, degradation of water quality, competing demands of water uses, and new development of water resources among others. The

consensus was to stop debating whether water is available for filling new storages or not and get to work. It is essential to not let this water leak, otherwise posterity will never forgive us. In addition to PANCID, the Association for Water, Applied Education and Renewable Energy (AWARE) also celebrated World Water Day by organizing a seminar.

The Faculty of Agricultural Engineering, Sindh Agricultural University, Tando Jam, Pakistan, which is an active member of PANCID organized a Seminar on 22nd March 2005 to observe the World Water Day. (Source: PANCID).

Seminar on World Water Day organized by Faculty of Agricultural Engineering, Sindh Agriculture University

Faculty of Agricultural Engineering, Sindh Agriculture University, Tando Jam, Pakistan, a member of PANCID, celebrated the World Water Day March 22, 2005, with fervor by inviting the Heads of various organizations housed on the campus to participate and deliberate on the theme of the year "Water for Life". Students of the University participated and gave lectures on the importance of water



PANCID celebrates the World Water Day

with respect to the theme of the day and the theme of the decade. The main theme of the seminar was "Water for Life".

All the dignitaries gave lectures highlighting the importance of water for sustaining the life on earth and briefed the audience about the steps their organizations are taking in promoting the efficient and equitable distribution of water for agriculture and domestic use. The students of the University actively participated.

Dr. Bashir Ahmed Shaikh, Vice Chancellor, Sindh Agriculture University, distributed cash prizes among three top scorer students. In his concluding remarks the Vice Chancellor pointed out that the country in general and Sindh Province in particular is in shortage of irrigation water. He emphasised the role of the professors and scientists of seven leading organizations housed on the campus, to play their part and guide the farmers as to how they can utilize the water most efficiently and what methodologies they may adopt to harvest maximum benefits from the available water resources without compromise on the production and socio-economic development. He stressed to adopt the advanced water saving technologies and to grow high value crops that require less water to combat the crises of water shortage. The celebrations were well organized and the participants appreciated the knowledge they have gained from the eminent speakers of the day.

Thailand (THAICID)

The Thailand National Committee of ICID (THAICID) celebrated the World Water Day on the theme "Water for Life". The activities organized were: (i) publication of ICID.CIID posters, stickers, wordpad



THAICID celebrates the World Water Day and distribution of the same to members of THAICID and agencies inside and outside the Royal Irrigation Department and (ii) an exhibition on World Water Day at the Royal Irrigation Department on 22nd March 2005.

The Netherlands (NETHCID)

The Netherlands National Committee of ICID (NETHCID) organized The NETHCID Symposium on 13 April 2005. The topic of the Symposium was "Impact of climate change on water management". The Symposium was organized by Delft Hydraulics. The proceedings are being prepared in English and will be mailed to ICID National Committees/Committee.

Slovak (SKNC-ICID)

As a part of the World Water Day celebrations, the representatives of the Slovak National Committee, ICID (SKNC-ICID) participated in the whole-Slovak Conference held at the Faculty of Ecology and Environmental Science in Banska Stiavnica of the Technical University in Zvolen on 18 March 2005 with international participation. This event was used for announcement of International Decade: "Water – Resource of Life". A Conference was also organized by the Ministry of Environment, Slovak Republic; Association of employees in water management in Slovakia; Slovak Environmental Agency; Slovak Water Management Enterprise; Association of Water Companies and Water Research Institute.

The dignitaries who graced the conference were : H.E. Prof. Dr. Laszlo Miklos, Minister of Environment SR; H.E. MUDr. Rudolf Zajac, Minister of Health SR; H.E. Ing. Zsolt Simon, Minister of Agriculture SR; Ing. Marian Supek, Director General, Section of water, Ministry of Environment SR; Ing. Miroslav Toncik, Director General, Slovak Environmental Agency; and Ing. Marian Lichner, Mayor of the City Banska Stiavnica. The program included speeches by experts and professionals. A press conference was held to stress on the importance of the World Water Day, actual problems in water management as well as water protection

in Slovakia. (Source : Slovak National Committee of ICID).

Sri Lanka (SLNICID)

The Sri Lanka National Committee of ICID (SLNICID) organized one day seminar on the 22 March 2005 on the theme "Water for Life" at the Irrigation Department Secretariat. The seminar was jointly organized by the SLNICID and the Irrigation Department and was chaired by the Honorable Minister for Agriculture, Livestock, Lands and Irrigation. Mr. Tissa Waranasooriya, Secretary to the Ministry of Agriculture, Livestock, Lands and Irrigation was the guest of honour. Eng. K.S.R. De Silva, Director General of Irrigation delivered the welcome address. There were presentations on the themes "Importance of ground water resources for the life", "Irrigation sector benchmarking as a tool to help finding water for life", "Water for life – health and ecosystems", "Alternative water source for life", and "Storage water for life" by senior officers of the Irrigation Department, Water Resources Board, National Water Supply and Drainage Board and Mahaweli Authority. About 150 people attended the event. (Source: Communication from SLNICID).

Turkey (TUCID)

World Water Day was celebrated in Turkey. A meeting was organized in Ankara by General Directorate of State Hydraulic Works. The meeting was graced by the Ministry of Energy and Natural Resources Dr. Hilmi Guler and attended by many deputies, ambassadors, Director General Prof. Dr. Veysel Eroglu and staff of State Hydraulic Works. After the opening ceremony, documentary film "Water for Life" prepared by State Hydraulic Works was presented. Minister Guler in his opening speech, stated that water and environment are the topics given special emphasis in the world today. He mentioned that as a result of showing no respect to the environment, disasters like floods and tsunami occurred. He concluded that this problem needs to be addressed not only at national but also at international level.

ICOLD Annual Meeting, Tehran, Iran, 1-11 May 2005

For the 73rd ICOLD Annual meeting which was held in Tehran, Iran in the first week of May 2005, a special invitation was extended by Iranian National Committee on Large Dams (IRCOLD) [on behalf of International Commission on Large Dams (ICOLD)] to Secretary General Gopalakrishnan as a Guest to participate in their Committee meetings, symposium, workshop etc., so as to enable sharing knowledge, new technologies and advancements in the Industry. Iran ranks 3rd among significant dam builder country in the world after China and Turkey. The main focus of the Special Sessions was '*Seismic Aspects and Uncertainty Assessment in Dam Engineering*'. The meetings of ICOLD's Committee on Dams and Water Transfer also took place with Secretary General Hon. Dr. C.D. Thatte as Chair. The occasion provided an opportunity of a joint meeting between ICOLD, IAH & ICID to mutually exchange their impressions on their role while participation in 4th World Water Forum.

Secretary General had an opportunity to interact with Mr. C.B. Viotti, President, ICOLD, Mr. André Bergeret, Secretary General, ICOLD besides Dr. Reza Ardakanian, Deputy Minister for Water Affairs and Chairman, Iranian National Committee on Irrigation and Drainage (IRNCID). Technical tours to several projects like Karkhe Dam, Masjed Soleyman Dam and Karun III Dam, enabled one to appreciate the tremendous efforts of Iran since last two decades. Most of the irrigated agricultural development of Karun River are being harnessed; new irrigated agricultural development and consolidating vast irrigated area already in use are being addressed. The multipurpose dam will yield supply of irrigation water for 3,20,000 ha of farmland besides controlling downstream areas through devastating floods.

At the conclusion of the visit, Secretary General had a very beneficial meeting with the Iranian National Committee on

Irrigation and Drainage (IRNCID), when he discussed matters of mutual interest. IRNCID plays a key role in ICID activities with representation in 15 workbodies. It is a broadbased National Committee (with 1915 members in their role); they belong to different disciplines and interest. The regional issues within the country pertaining to irrigation and drainage are handled by 8 regional sub-committees, spread out geographically. IRNCID has its own well developed website that can respond to queries pertaining to irrigation and drainage by farmers, academic students and others; networking with experts of different work groups within the country is also enabled in the website. Iran has 21 universities that train graduates in irrigation and drainage besides agriculture. Iran has attained self-sufficiency in food production by resorting to significant and focused development in the past few decades after revolution.

2nd International Forum on Partnerships for Sustainable Development, Marrakech, Morocco, 21-23 March 2005

On an invitation from the Moroccan Ministry of Territory Planning, Water and Environment who organized the 2nd International Forum on Partnerships for Sustainable Development: Advancing Implementation on Water and Energy in Marrakech, Morocco from 21-23 March 2005 in cooperation with the United Nations / Department of Economic and Social Affairs (UN/DESA). Secretary General M. Gopalakrishnan participated in the event. The objective of the Forum was to consider, in particular, sustainable development implementation by strengthening water and energy related partnerships.

Secretary General made a presentation on '*ICID's initiative to focus on Water for People, Food and Nature*'; the objectives, aims and approach and outcome of the CPSP studies in India

and China (besides an extension to Pakistan, Egypt and Mexico) were provided in an exclusive session. The fact that the project was handled by ICID with partnership of IWMI, IFPRI, FAO, IPTRID and World Bank was highlighted. Other partners who were associated in the National Consultations were Governments at Centre / Federal level besides States / Provinces. The outcome of the studies were further presented to international organizations through dialogue process. IUCN, GWP, IWMI, IFAP, WHO, WWC and WWF had an opportunity to share the results of CPSP studies. The structure of partnership with other international organizations while accomplishing the project undertaken was simple, through a Memorandum of Understanding (MoU) relying on the competence on data agencies (IES) to make progress towards a final agreeable end result.

CPSP Reports provided an insight on desirable policy decisions, which can be targeted by the country policy makers, if other compulsions do not alter the suggested approach. The organizers of Forum were to report the outcome of the UNCSD (CSD-13) as a part of the strategy for '*Advancing Implementation on Water and Energy*'.

Utilising the opportunity to visit Rabat / Marrakech, Morocco, Secretary General held meeting with Moroccan National Committee representatives. In particular Secretary General had held briefing of the present composition of Moroccan National Committee (ANAFID) with Dr. Mohammed Ait-Kadi, Vice President Hon., ICID. Discussions were also held about active participation by ANAFID in the forthcoming Beijing Congress in September 2005.

World Water Council – Board of Governors meeting Rabat, Morocco, 18-20 March 2005

Enroute to Marrakech, Secretary General M. Gopalakrishnan passed



Board of Governors meeting

through Rabat and participated in the Board of Governors (BoG) meeting of WWC. With the resignation of Mr. William Cosgrove, Dr. Loïc Fauchon, Vice President, WWC was elected to be the President of WWC (for the interim period upto the end of the year) until the election process for electing the President, WWC is firmed up and fresh elections held before 4th WWF, Mexico in March

2006. The BoG meeting approved the By-laws that were presented by the Commission on Legal and Financial Affairs (CLFA) (in which Secretary General also is a member). Apart from other business issues of WWC, the preparations for 4th WWF, Mexico were discussed in BoG. The theme for 4th WWF is 'Local Action for Global Challenge'. The sub-themes and theme leaders (beacons) were identified.

Framework themes

- Water for growth and development
- Implementing integrated water resources management (IWRM)
- Water supply and sanitation for all
- Water management for food and the environment

- Risk management

Cross-cutting perspectives

- New models for financing local water initiatives
- Institutional development and practical processes
- Capacity building and social learning
- Application of science, technology and knowledge
- Targeting, monitoring and implementation assessment

One of the cross cutting themes of relevance to I & D sector is 'Implementing Integrated Water Resources Management (IWRM)' for which the identified beacons are IWMI (Mr. Frank Rijsberman) and Dr. Luis Rendón Pimentel, President, Mexican National Committee on Irrigation and Drainage (MXCID).

Kyoto World Water Grand Prize

The Japan Water Forum, representing Kyoto City, had a discussion with the World Water Council and the 4th World Water Forum Secretariat on the Kyoto World Water Grand Prize, which was established at the 3rd World Water Forum by Kyoto City and the

Soroptimist International of Kyoto. World Water Council and Kyoto City signed the agreement on the occasion of the 3rd World Water Forum in March 2003, to award this prize every three years and the winner will be awarded 5 million yen (approx. 50,000USD) at the future World

Water Forums. The first edition of the prize at the 4th World Water Forum will be awarded to individual/organization that conducts grassroots activities in their local community. The detailed information on the prize will be available in June from website <http://www.waterforum.jp>.

Great Man-Made River International Prize for Water Resources in Arid and Semi-Arid Areas

The prize recognizes the achievements of an individual, a group of individuals or a research institution having made fundamental and substantial contributions to the

assessment, development, management and/or use of water resources in arid and semi-arid areas. The prize is awarded biennially and comprises a certificate, a medal and

a sum equivalent to 20000 US\$. See more information at UNESCO website (Source : http://www.unesco.org/water/ihp/prizes/great_man/index.shtml).

The International Programme for Technology and Research in Irrigation and Drainage (IPTRID) gets a new Programme Manager as of 1 March 2005

Mr. Carlos Garces-Restrepo is the new Programme Manager of International Program for Technology Research in Irrigation and Drainage (IPTRID). Mr Garces, a Colombian national, with an Agricultural Engineering background, holds a Ph.D.



degree from Cornell University, in Water and Soils Engineering. He is a specialist in water management with emphasis on the performance of irrigation and drainage systems, from small to large scale. He has also worked extensively as an irrigation institutions specialist particularly in relation to Irrigation Management Transfer and Water User Associations. He has been associated with FAO since early 2002 first as

Technical Officer of the Water Service (AGLW) and later as Assistant Programme Manager of IPTRID. During his extensive professional career, he has had long-term assignments in Mexico, Honduras, Colombia, Bangladesh, Pakistan, Philippines, Indonesia and Italy, and short technical missions to more than 20 countries around the world.

Roberto Lenton Designated as New Chair of the Water Supply and Sanitation Collaborative Council (WSSCC)

Dr. Roberto L. Lenton, a well-known water resources expert and Co-Coordinator of the UN Millennium Project Task Force on Water and Sanitation, has been designated as the new Chair of the Water Supply and

Sanitation Collaborative Council (WSSCC). He succeeds Sir Richard Jolly, who served as Council Chair for almost eight years during a period of tremendous growth and marked with notable achievements of the WSSCC

including its successful WASH campaign. Dr. Lenton will assume the post of WSSCC Chair during the "World Water Week" in Stockholm in August 2005.

East Africa Integrated River Basin Management Conference 7-9 March 2005, Morogoro, Tanzania

The East Africa Integrated River Basin Management Conference was held at Sokoine University of Agriculture, Morogoro, Tanzania from 7-9 March 2005. The conference was attended by over 150 participants from 15 different countries. Er. M. Gopalakrishnan, Secretary General, ICID participated and made a presentation on CPSP – BHIWA Model. A paper on "An integrated water assessment model for future scenario studies of Sabarmati River Basin in India" was prepared for this Conference to disseminate 'knowledge' recently generated in ICID. Together, river

basin professionals and researchers considered various tools for Integrated Water Resources Management (IWRM). The concerns of water allocation for different end uses were brought to fore by different groups so as to explore the integration of various interests.

Utilising the opportunity, Secretary General M. Gopalakrishnan met water professionals and representatives of National Committees of East African Countries viz. Tanzania, Kenya, Ethiopia, Zimbabwe, South Africa who could join

the event in Morogoro in March 2005. Engr. Mbogo Futakamba, Secretary General, TANCID facilitated this side event in the Conference. The meeting focussed on the aspect of propagating ICID goals and reinvigorate NCs of East Africa region. While the issue of active participation of the members from East African region came up for discussions, an opinion to pool PAN-EA National interests emerged. Tanzania and Kenya agreed to jointly pursue further efforts in this regard.

IWRA Crystal Drop Award

International Water Resources Association (IWRA) has selected Prof. Malin Falkenmark to receive IWRA Crystal Drop Award for 2005. This is the highest honour to be accorded to any one by

IWRA. Prof. Malin Falkenmark, an eminent water resources specialist, is being selected for her lifetime contributions to advance the sciences of hydrology and water resources

management for over fifty years and for her strong and continued support to the International Water Resources Association since its founding in 1972 (Source : Communication from IWRA).

UNESCO International Prize for 'Water Resources in Arid and Semi-Arid Areas'

Nominations are invited from the Representatives of the Governments/ UNESCO Member States, and UNESCO IHP National Committees, the UNESCO National Commissions, and Non-governmental organizations

maintaining official relations with UNESCO for the UNESCO International Prize for "Water resources in arid and semi-arid areas". Nominations have to be in English or in French only.

The Award carries a sum of 20.000USA dollars and the applications can be submitted to UNESCO IHP Secretariat by 15 JUNE 2005. For more information, contact Ms. K. Lepresle (K.Lepresle@unesco.org).

Spanish National Committee on Large Dams (SPANCOLD) will organize the 22nd International Congress on Large Dams, ICOLD BARCELONA 2006, 15-23 June 2006

The Congress Website www.icold-barcelona2006.org will give details of programs and activities of the 74th Annual Meeting from 15-17 June 2006 and 22nd Congress in Barcelona from 18-23 June 2006.

For more information, contact : General Secretariat, ICOLD-BARCELONA 2006, Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos, Gran Capitán, s/n. Modulo D108034

Barcelona, Spain. Tel.:34-93 401 6478, Fax: 34-93 401 7357, E-mail: secretariat@icold-barcelona2006.org; Website: www.icold-barcelona2006.org.

The King Hassan II Great World Water Prize

The King Hassan II Great World Water Prize is an international award jointly established by the Government of Morocco and the World Water Council, in memory of his Majesty King Hassan II of Morocco's distinguished leadership and encouragement of cooperation and sound management of water resources.

The award was created in March 2000, with the aim of having a political tool at the disposal of both institutions to stimulate awareness and reflection.

The Prize is awarded to an institution, organization, individual or group of individuals in honor of outstanding achievements in any aspects of water resources such as scientific, economic, technical, environmental, social, institutional, cultural or political.

The award is presented every three years in conjunction with the World

Water Forum, during a special ceremony. The award winner receives a prize sum of US\$ 100,000, a trophy and a certificate.

The theme for the Prize is "Cooperation and solidarity in the fields of management and development in water resources."

The inaugural edition of the Prize was held in Kyoto, Japan, during the 3rd World Water Forum in March 2003. The winners of this first edition were Dr. Jerson KELMAN, Director President of Agencia Nacional de Aguas (ANA) of Brazil, and Dr. Mahmoud ABU-ZEID, Minister of Water Resources and Irrigation of Egypt.

For more information, please visit WWC website: <http://www.worldwatercouncil.org>.

UNESCO 2005 Great Man-made River International Water Prize

The Great Man-Made River International Water Prize, generously financed by the Government of the Libyan Arab Jamahiriya, is intended to reward the achievements of an individual, a group of individuals or a research institute having made fundamental and substantial contributions to the assessment, development, management and/ or use of water resources in arid and semi-arid areas. The Prize is awarded biennially by the Director-General of UNESCO at a public ceremony, to be held next in autumn 2005, and comprises a certificate, a medal and a sum equivalent to USD 20,000.

For more information, please visit http://www.unesco.org/water/ihp/prizes/great_man/.

The 12th World Water Congress of IWRA

The International Water Resources Association (IWRA) in association with Central Board of Irrigation and Power are cooperating to bring to the world community the 12th World Water Congress from 22-25th November 2005 at New Delhi, India. For details visit: <http://www.worldwatercongress.org>.

The main theme of the 12th Congress is: "Water for Sustainable Development– Towards Innovative

Solutions" and the following topics have been identified to address the theme of the Congress: 1. Integrated Water Resources Management; 2. Water Infrastructure Development; 3. Water Governance; 4. Urban Water Management; 5. Rural Water Management; 6. Water Security and Risk Management; 7. Economics and Financing of Water; and 8. Capacity Building for Water Resources Management.

2005 Stockholm Industry Water Award Honours Procter & Gamble's Life-Saving PuR – Purifier of Water Treatment Product

The Procter & Gamble Company [NYSE:PG], USA, has been awarded the 2005 Stockholm Industry Water Award in recognition of its development of the PuR - Purifier of Water drinking water treatment system for households not served by a potable water supply system, or for use in disaster relief.

Country Profile – Cyprus

Geography and population

Cyprus is the largest island in the Eastern Mediterranean with an area of 9 250 km². The main features of the island's topography include two mountain ranges, the Kyrenia in the north, which rises to 1 024 metres, and the Troodos in the centre, rising to 1 951 metres. Between these two main mountain ranges lies a wide plain, the Mesaoria plain, which rises from sea level to about 325 metres. Between the two mountain ranges and the sea there are narrow fertile coastal plains. The area of the country is about 5 807 km². It has a maximum length of 240 kms. from East to West and a maximum width of 100 kms. from North to South.

The total population for the whole island is 742 000 according to United Nations estimates (1995), of which 46% is rural. According to the National Demographic Report of 1994, the total population in the government-controlled areas amounted to 638 300 (as against 734 000 for the whole island), of which 32% was rural. The annual population growth is 1 %. Agriculture, including crop production, livestock, fisheries and forestry accounted for 5.4 %

of the GDP in 1994, down from 10% in 1980.

The climate of Cyprus is typical of the Eastern Mediterranean, with mild winters and hot, dry summers. Average daily minimum temperature is 9°C in January, while the average daily maximum is 35°C in August. The mean annual precipitation for the whole island is 503 mm, ranging from 290 mm in the east to 1190 mm in the Troodos mountains. Most of the rain falls in the winter months from December to February, with snow falling frequently in the Troodos mountains. Hail storms are common and often cause considerable crop damage. There are large variations in rainfall from year to year.

The cultivable area is estimated at 165 433 ha, which is 28% of the total area under government control. In 1994, cultivated land amounted to 111 649 ha, of which 69 509 ha consisted of annual crops and 42 140 ha consisted of permanent crops. Most land is private. There are 51 300 farm holdings and according to the 1994 Census of Agriculture, the average holding size is 3.5 ha divided into 4.5 parcels of land.

Water resources

A water balance cannot be easily calculated for the government-controlled area of Cyprus. A water balance for the whole island, however, indicates 900 million m³/year of renewable water resources. Surface runoff is estimated to represent about 830 million m³/year. The natural aquifer recharge is estimated at 300 million m³, of which about 70 million m³ flows to the sea and 100 million m³ emerges from springs.

There are 14 main rivers, none of which provides perennial flow. The source of water for these rivers originates in the Troodos mountains. The main groundwater aquifers are the Western Mesaoria (Morphou), Kokkinochoria (South-eastern and Eastern Mesaoria) and the Akrotiri. Smaller aquifers exist in other parts of the country.

Dams

In 1995, the total dam storage capacity reached 299 million m³ on the whole island, up from 6 million m³ in 1961 and 64 million m³ in 1974.

Currently some 40 million m³ of wastewater are produced annually on the whole island.

Water withdrawal

In 1993, total water withdrawal in the government-controlled area was 211 million m³ of which 74% was for agricultural purposes, including both irrigation (70.6%) and livestock (3.3%). Water withdrawal for domestic and industrial use in 1993 was 23.7% and 2.4% respectively. The trend in recent years, which is likely to continue in the future, is that increasing quantities of water will be used for domestic water supplies at the expense of agriculture.

Considering the whole island, 70 million m³ of groundwater flows to the sea yearly and 270 million m³ is either pumped out or emerges from springs, leading to a total extraction from the aquifers of 340 million m³/year. As the annual recharge has been estimated at 300 million m³, there could be up to 40 million m³/year of excess pumping over natural recharge. As a result, the total area of Cyprus is experiencing a gradual decline in groundwater yield, a lowering of the water table and, in certain cases, sea water intrusion.

Irrigation and drainage development

In 1994, the water managed area was estimated at 39 938 ha in the government controlled area, of which 39 545 ha were equipped for full or partial control irrigation.

Less than 1 % consisted of spate irrigation. In 1994 only 32 864 ha, or only 82% of the water managed area, were irrigated because of water shortages.

Spring water and groundwater were the first target of water resources development. Traditionally this water was cheap and easy to develop by individual farmers or farmers' Irrigation Divisions or Associations. In both cases a government permit is required prior to initiation of any water work. Normally these schemes are small and they cover 1 to 3 ha, although larger schemes have also been developed in recent years.

All public schemes are operated by the Water Development Department (WDD) of the Ministry of Agriculture, Natural Resources and Environment and the farmers are charged for the water on a volumetric basis. This is possible through the use of water meters which are monitored regularly by the WDD. Irrigation Divisions or Associations usually operate and maintain their own schemes and charge the users either on a volumetric or an hourly basis.

The irrigation network in Cyprus is highly efficient. It generally consists of closed systems with an overall conveyance efficiency averaging 90-95 %. Field application efficiency averages 80-90%. In parallel with the government's efforts to increase the water available for agriculture, emphasis was placed on the optimum utilization of water through improved irrigation methods. To encourage farmers to use improved irrigation methods the government offered incentives to participating farmers in the form of subsidies and long-term low interest loans for the purchase and installation of improved irrigation systems. As a result of these efforts, the area irrigated by surface irrigation methods has declined from about 13 400 ha in 1974 to less than 2 000 in 1995 while the area equipped for micro-irrigation has increased over the same period from about 2 700 ha to almost 35 600 ha.

In 1994, 21 746 ha consisted of large schemes (> 500 ha), 2 091 ha of medium schemes and 15 708 ha of small schemes (<100 ha).

The major irrigated crops are fruit trees and potatoes. For most crops the cost of irrigation water varies from about \$US 90

to 270/year per ha. Public schemes currently charge the consumer \$US 0.03/ m³, whereas the Irrigation Divisions usually charge their members the full operating costs in addition to a basic charge for repayment of loans (when applicable).

These costs are high and discourage the farmers from using irrigation for low value crops such as cereals, pulses, olives, almonds, carrots etc. The above-mentioned cost amounts, for example, to about 23 % of variable costs and 17% of total production costs for oranges or 17% and 11 % respectively for spring potatoes. These two crops are the major export crops of Cyprus and cover an area of about 2200 and 4600 ha/year respectively. When irrigation is used for other crops, for example wheat or barley, the yields also substantially increase. While the national average yields of rainfed wheat and barley were 0.55 and 0.92 tons/ha respectively in 1994, irrigated crop yields were 4 and 3 tons/ha respectively. Although irrigated crops cover only about 30% of the cultivated land, they account for 60-70% of the production earnings.

Institutional environment

The Ministry of Agriculture, Natural Resources and Environment is responsible, through a number of departments, for water resources assessment and development. The Water Development Department (WDD) assesses the surface water resources (groundwater resources are assessed by the Geological Survey Department), plans the water development projects, develops the engineering studies (including civil works needed) and operates and maintains these projects. Project construction is usually subcontracted to the private sector, following bids. The WDD also has the responsibility of recommending plans to government for the allocation of water resources as well as water rates. For irrigation purposes the water rates cannot legally exceed 40% (65% in exceptional cases) of the average total cost of water provision, including capital expenditure as well as operation and maintenance expenditures (for domestic and industrial water supply the full costs are recovered).

The main laws concerned with irrigation date back to before to independence in 1961, and include the Government Water

Works Law (Cap 341 of 1928) which provides for the control of water and the construction of water works by the government; the Wells Law (Cap 351 of 1946) which covers the installation of wells and their related water rights, and the Irrigation Divisions (Cap 342 of 1938) which regulates the formation of Irrigation Divisions and their operation. The Laws, in general, function effectively and, in the case of the Water Laws, cover all aspects of water development as well as interactions between government and users. All land in Cyprus is registered and owners have deeds or certificates of ownership.

Trends in water resources management

There is no accurate estimate of the quantity of water extracted in excess of natural recharge, but it could be as high as 40 million m³/year. Even so, in years of drought or below average rainfall, it is necessary to divert water from agriculture to the domestic and industrial sector. In such cases it is necessary to restrict the amount of water made available for both annual and perennial crops. For instance, in the 1989-90 and 1990-91 seasons, annual crops were limited on average to 70% of the normally irrigated land, whereas perennial crops received only 80% of normal supply. A similar situation occurred in 1993.

Waterlogging, soil salinization, and vector-borne diseases are not present in Cyprus. Contamination of groundwater, especially with fertilizers (particularly nitrates) in certain areas of the island where agriculture is intensively practiced, is however occurring and is a cause of concern. There is also the problem of seawater intrusion in the main coastal aquifers. This situation overall requires close monitoring.

Cyprus and ICID

Cyprus joined ICID in 1955, and has been actively associated with ICID activities at national as well as international level. Cyprus National Committee (CYCID) is represented in one ICID Regional Working Group, i.e. European Regional Working Group (ERWG). At present, Mr. Viassis Partassidis is the Secretary and Mr. Christodoulos Christodoulou is the Chairman of CYCID.



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