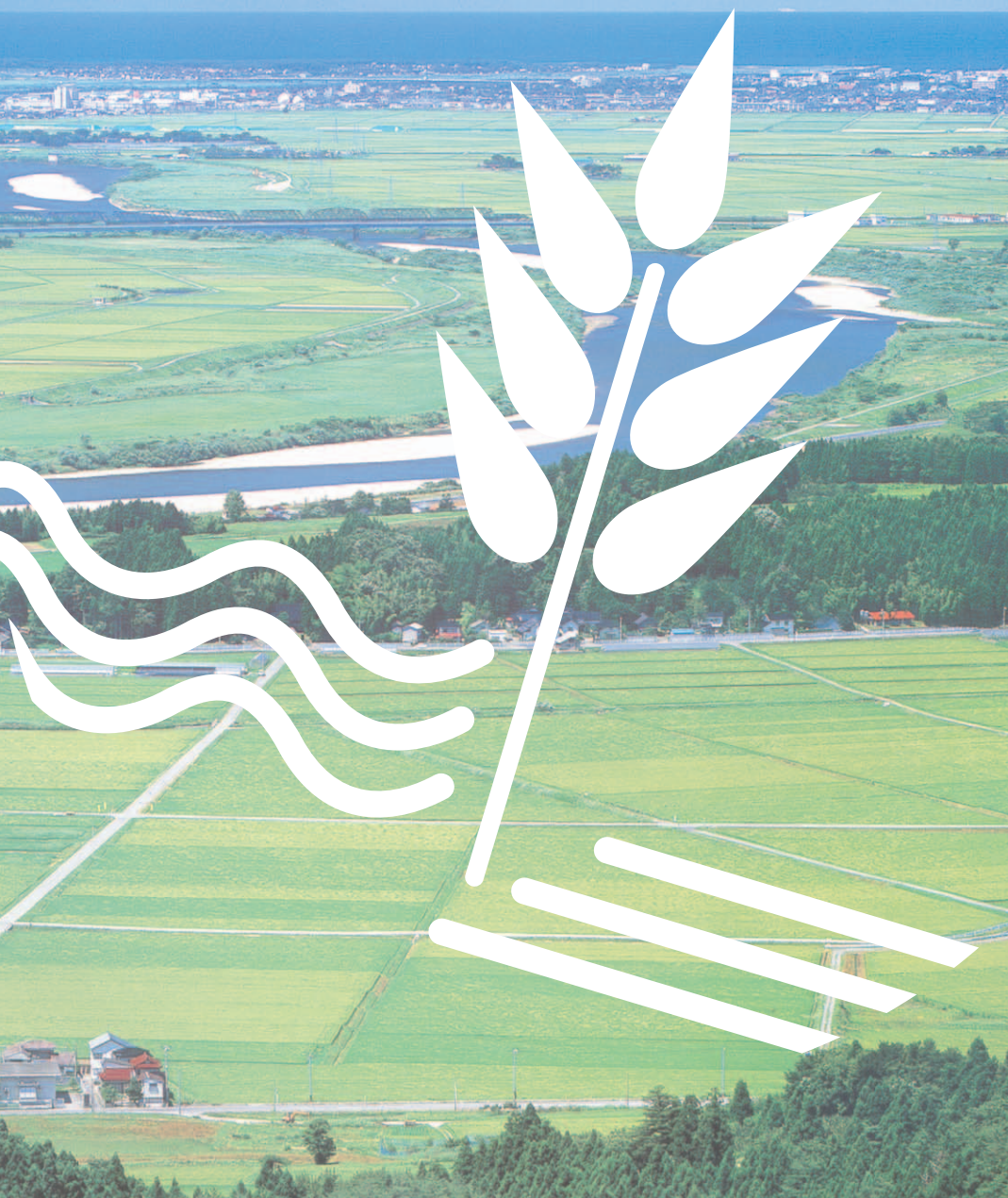




ICID•CIID

# Annual Report

2005-2006



**INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE**

*Managing Water for Sustainable Agriculture — Water for Food and Rural Development*

## Mission of ICID

**T**he International Commission on Irrigation and Drainage (ICID) is established as a Scientific, Technical, Professional, and Voluntary Not-for-Profit Non-Governmental International Organization (NGO), dedicated, *inter alia*, to enhance the worldwide supply of food and fibre for all people by improving water and land management, and the productivity of irrigated and drained lands through the appropriate management of water, environment and the application of irrigation, drainage and flood control techniques.

*The Mission of the International Commission on Irrigation and Drainage is to stimulate and promote the development of the arts, sciences and techniques of engineering, agriculture, economics, ecology and social science in managing water and land resources for irrigation, drainage, flood control and river training applications, including research and development and capacity building, adopting comprehensive approaches and up-to-date techniques for sustainable agriculture in the world.*



**INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ESTD. 1950)**

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*Water for Life ..... Conserve and Manage for Sustainable Agriculture .....*



It is my great pleasure and privilege to present the Annual Report for the year 2005-06. It is our 57<sup>th</sup> year of service to the global community contributing to mission goals as enshrined in our Constitution. The election for the choice of the new President was held in September 2005 during IEC

proceedings. On conclusion of his term, President Keizrul bin Abdullah handed over the mantle to President elect Peter S. Lee (United Kingdom). In his term (1 April 2005 to 24 September 2005), President Keizrul bin Abdullah envisioned concerted action by the Commission to demonstrate the sensitivity of our actions in irrigation and drainage sector so as to ensure 'environmental sustainability'. He held a vision to respond in a big way to the importance of environment, which has assumed relevance given the severe eco-degradation due to population explosion. President Lee declared in his maiden speech soon after his election, an ambitious plan in the coming three years that could take ICID to greater heights. Thus the year's 'pre-congress' months saw an intense activities to ensure a productive event and 'post congress' months saw actions oriented to look into ourselves and see how best one could enhance the contribution of our ICID systems to respond to future expectations.

The major accomplishments of the year thus relate to the products flowing out of the successful congress event. We had a congregation of more than 500 delegates from 56 countries and several International Organizations. Meetings of 34 Work Bodies of ICID including 6 Task Forces took place to take stock of their current activities and carve out future plans to grapple with emergent challenges. Several Work Bodies and National Committees of ICID took this opportunity to hold their own workshops, special sessions, conferences and exhibitions and exchanged their views, knowledge and findings. The events culminated with "Beijing Declaration", reflecting the summary of outcomes laying down a roadmap for the ICID for the ensuing three years. The Organisers of World Water Forum 4 too joined us in response to our invitation besides Representatives from World Bank, Bureau of Reclamation USA and other dignitaries. The Chinese National Committee of Irrigation and Drainage (CNCID) deserve our gratitude for the wonderful arrangements for making the event to a memorable one in all respects.

One of the crucial decisions of the 56<sup>th</sup> IEC relates to the Internal as well as External Review and the President was given a mandate to proceed, as appropriate. This was the result of a burning desire for a comprehensive review of our Technical Work Bodies as seen during the discussions since the last 56<sup>th</sup> IEC meeting. President Lee helped us to draft the initial draft terms of reference as desired in IEC. The Management Board subsequently referred it to a

'Steering Committee' composed of Dr. Alain Vidal; Dr. YooMan, Huh; Dr. Mark Svendsen and Dr. Safwat Abdel-Dayem with an advice to firm it up in consultation with National Committees and also enable the review process by monitoring.

The significant global event of the year was also the 4<sup>th</sup> WWF in Mexico, March 2006. ICID strived its best to contribute to the forum effectively. Guided by a special Task Force to stream line its inputs to the Forum under the Chairmanship of PH Aly Shady, ICID was identified as a Co Beacon for a specific Theme on "Water Management for Food and the Environment". Several Office-Bearers of ICID participated in various key sessions of WWF4 in Mexico to contribute. ICID had its representation in Board of Governor (BoG) ever since the constitution of World Water Council (WWC) and was thus effectively involved in the processes for shaping up of the Forum. However, following the elections that took place for a new BoG for WWC in Mexico in which ICID did not get elected, WWC will be missing us in their BoG. Water for food is a key element, when WWC addresses water policy issues. Hence ICID may have to evolve other forms of contribution to the global cause of food production by irrigation and drainage. More on the participation of ICID in WWC as well as WWF 4 events are reflected in detail in the Annual Report. ICID worked in cooperation with IWMI, IWRA, GWP, ICOLD, ISO, IPCC, FAO, UNCCD, WMO, IWALC, INWEPF, and UNESCO-IHE for accomplishments of its mission goals.

Our Journal "Irrigation and Drainage" is one of the periodicals listed in the ISI Science Journals Citation Index under the number ISSN 1531-0353 and appears in the categories Water Resources and Agronomy. We brought out 5 issues and a Special Issue on "Waste Water Irrigation" sponsored by IWMI, IWA and Wageningen University through M/s John Wiley. The other important publications brought out by ICID during the year were – Transactions Volumes of 19<sup>th</sup> ICID Congress (5 volumes), Planning and Designing of Micro Irrigation in Humid Regions and 9 reports covering the Netherlands Grant supported Project undertaken in ICID titled 'Country Policy Support Program' (CPSP). These reports were well received when circulated.

I hope that the Annual Report for the year 2005-06 will give you an opportunity to recapitulate the happenings during the year, identify such shortcomings, which are avoidable and hint on corrective measures for bettering ourselves in our performance in the future. I assure you that our tireless efforts to further improve our services would continue in a more vigorous manner in the coming years.

M. Gopalakrishnan  
Secretary General

## PRESIDENT



Mr. Peter S Lee (UK)  
2005-2008

## VICE PRESIDENTS



Dr. Alain Vidal (France)  
2003-2006



Mr. R. Jeyaseelan (India)  
2003-2006



Prof. Victor A. Dukhovny (Uzbekistan)  
2003-2006



Dr. YooMan HUH (Rep. of Korea)  
2004-2007



Dr. Hussein Ehsan El-Atfy (Egypt)  
2004-2007



Dr. Georgi Georgievich Guluyk (Russia)  
2004-2007



Dr. Mark Svendsen (USA)  
2005-2008



Mr. Felix B. Reinders (South Africa)  
2005-2008



Mr. Gao Zhanyi (China)  
2005-2008

## SECRETARY GENERAL



Er. M. Gopalakrishnan (India)  
1.1.2004 - 31.12.2006



# New Office Bearers

## **Mr. Peter S. Lee (UK), President, ICID (2005-2008)**

Mr. Peter S. Lee, born in 1945, is a civil engineer by profession. He obtained MSc (Engineering Hydrology) in 1973 from University of London. After his early professional work in Turkey and Zambia, Mr. Lee joined the internationally renowned consultancy firm Mott MacDonald in 1973. Since 2001 he is Director of Mott MacDonald, resident in India responsible for the development of their services in India and a technical resource for the other parts of the Group. He also coordinates the Group's business throughout South Asia.

From 1994 to 2000, Mr. Lee was Managing Director of Mott MacDonald International coordinating business in Europe, Africa, Middle East, Asia and Latin America and responsible for the Group's associated companies in these regions. He served on a number of external bodies advising on water and business issues. From 1982 to 1993, he was in charge of number of projects, mainly in Pakistan. From 1973 to 1981, he worked on many water resource projects in Africa, West and South Asia and UK. Mr. Lee's experience includes work on surface and groundwater irrigation, land drainage and salinity management, flood control, spate irrigation, rainfed agriculture, water supply, reservoir and catchment management and fishery protection. Mr. Lee has been actively involved in ICID activities since 1982.

## **VICE PRESIDENTS (2005-2008)**

### **1. Dr. Mark Svendsen (U.S.A.)**

Dr. Svendsen received his M.S. from Colorado State University in Water Resource Systems Engineering in 1976 and Ph.D. in Soil and Water Engineering and Tropical Agriculture from Cornell University in 1983. Presently, he is the President of the United States Committee on Irrigation and Drainage (USCID), interim Chairman of the recently constituted Working Group on Global Climate Change and Irrigation (WG-CLIMATE) and a member of the ICID Working Group on Integrated Land and Water Resources Management (WG-ILWRM). Dr. Svendsen has been involved in many international development works throughout his career. Dr. Svendsen has worked in USAID/Washington, managing irrigation assistance projects in the Asian region, in irrigation and water policy research with International Food Policy Research Institute (IFPRI), and in International Water Management Institute (IWMI). For the past 11 years, he has worked as an independent consultant to governments and international lenders in the field of water resource planning and management. Dr. Svendsen has work experiences in more than 25 countries from Afghanistan to Zimbabwe. He has authored/co-authored more than 100 journal articles, book chapters, and professional

papers and organized and facilitated more than 20 professional workshops and conferences. He is an Associate Editor of the Journal, "Irrigation and Drainage Systems" and a member of International Water Resources Association (IWRA).

### **2. Mr. Felix B. Reinders (South Africa)**

Mr. Reinders (b. December 1955) obtained B.Sc. (Civil Engineering) in 1979 and has a total of 25 years professional experience in the field of irrigation and drainage. Presently, he is General Manager (Operational Programmes) in Agricultural Research Council of Institute for Agricultural Engineering (ARC-IAE) and coordinates engineering programmes, viz. irrigation engineering, resource conservation, crop production mechanization, development, testing and designing. He has represented South Africa in many international committees on irrigation matters. Mr. Reinders has served as the Chairperson of South African National Committee on Irrigation and Drainage (1999-2002) and is Chairperson (since 2004) of the ICID Working Group on On-Farm Irrigation Systems (WG-ON-FARM). Mr. Reinders has designed and developed couple of irrigation equipments/technologies and is author of many scientific and semi-scientific papers and articles in the field of irrigation. Mr. Reinders is a recipient of many prestigious professional awards.

### **3. Mr. Gao Zhanyi (China)**

Mr. Gao Zhanyi (b. April 1962) obtained his B.Sc. (Water Resources Engineering) in 1984 and M.Sc. (Irrigation and Drainage Engineering) in 1989. He received advanced training in the Division of Land and Water at CSIRO, Australia (1995-1996). Presently, Mr. Zhanyi is Director in National Center for Efficient Irrigation Technology Research and Department of Irrigation and Drainage, China Institute of Water Resources and Hydropower Research. He is Vice Chairman as well as Secretary General of Chinese National Committee on Irrigation and Drainage (CNCID). Mr. Zhanyi has served as Chairman (2002-2003) of the ICID's Working Group on Young Irrigation Professionals Forum (WG-YPF), and as Convener (2002-2005) of the Committee on Congresses/ Conferences (C-CONGR). He is a member of the ICID Work Team on Use of Poor Quality Water for Irrigation (WT-PQW), since 1998. He is the winner of ICID's WatSave Young Professionals Award (1999). Mr. Zhanyi has authored many technical papers related to irrigation and drainage and has not only edited/translated but also published technical documents in Chinese.

ICID family extends a warm welcome to the newly elected President and Vice Presidents. ICID family also thanks the outgoing President Keizrul bin Abdullah and Vice Presidents viz. Prof. Cai Lingen (China), Engr. I.K. Musa (Nigeria) and Prof. André Musy (Switzerland) for their valuable guidance and cooperation during their tenure in ICID.

## 19<sup>th</sup> ICID Congress

- Keynote Address on Congress Theme “Use of Water and Land for Food Security and Environmental Sustainability” was delivered by Ir. Hj. Keizrul bin Abdullah, President, ICID.
- The 6<sup>th</sup> N.D. Gulhati Memorial Lecture for International Cooperation in Irrigation and Drainage was delivered by Dr. Albert J. Clemmens (USA) on the title “A Process-Based Approach to Improving the Performance of Irrigated Agriculture”.
- Prof. Luis. S. Pereira (Portugal), President, CIGR & Vice President Hon., ICID delivered the keynote address for Question 52 on “Improving Water and Soil Management for Increasing Efficiency in Irrigated Agriculture”.
- The Keynote Address titled “From Philosophy to Action: Accomplish Harmonious Coexistence between Man and Flood” was delivered by Prof. Liu Ning, Engineer-in-Chief, Ministry of Water Resources, P.R. of China for Question 53.
- Mr. Salah Darghouth, Senior Water Advisor for Agriculture and Rural Development, The World Bank delivered the keynote address titled “Modernizing Public Irrigation Institutions: The Top Priority for the Future of Sustainable Irrigation” for Special Session.
- Papers were presented and discussed under subtopics of Question 52, Question 53, Special Session and Symposium.
- Poster Sessions on Question 52 and Question 53 were organized.
- An International Exhibition was organized by involving ICID National Committees.
- Best Performing ICID National Committee Award’ (BPNCA) was given to Egyptian National Committee of ICID (ENCID) for the tenure 2002-2005.
- Working Group on History of Irrigation Drainage and Flood Control (WG-HIST) received the best Working of Group Award for the tenure 2002-2005.
- The Beijing Declaration was presented by Secretary General.

## 56<sup>th</sup> International Executive Council (IEC) Meeting

- Mr. Peter S. Lee (UK) was elected as President of ICID for the term 2005-2008.
- Dr. Mark Svendsen (USA), Mr. Felix B. Reinders (South Africa) and Mr. Gao Zhanyi (China) were elected as Vice Presidents of ICID for the term 2005-2008.
- Dr. Hector Malano (Australia) was elected as Chairman of the Permanent Committee for Technical Activities (PCTA).
- Dr. Hu Heping (China) was elected as Chairman of Working Group on Environmental Impacts of Irrigation, Drainage and Flood Control Projects (WG-ENV).
- Prof. Yih-Chi Tan (Chinese Taipei) was elected as Vice Chairman of Working Group on Environmental Impacts of Irrigation, Drainage and Flood Control Projects (WG-ENV).
- Mr. Stephen Mills (Australia) was chosen as Vice Chairman of Working Group on Research & Development (WG-R&D).
- Ms. Felicity Chancellor (Great Britain) became Vice Chairman (upto 2006) of Working Group on Socio Economic Impacts and Policy Issues (WG-SOCIO).
- Dr. Ge van den Eertwegh (The Netherlands) was elected as Secretary of the Working Group on Environmental Impacts of Irrigation, Drainage and Flood Control Projects (WG-ENV).
- The winners of the ICID WatSave Awards 2005 were – Prof. Li Daixin (China) for Innovative Water Management Award, and Dr. Mohamed Maher Mohamed Ibrahim (Egypt) for Young Professionals Award. Each award was carried prize money of US\$2000 and a Citation. No nominees qualified for the WatSave Award for Technology. The WatSave Awards 2005 were sponsored by the Spanish National Committee of ICID (AERYD).
- A joint meeting of Forum organizers and ICID members including TF 1 chaired by Mr. Aly M. Shady discussed the strategy for ICID’s inputs for the 4<sup>th</sup> World Water Forum (WWF-4) in Mexico.

## **Workshops/Special Sessions/Seminars/Symposia held during the 56<sup>th</sup> IEC Meeting of ICID :**

- Workshop on Flood Management
- Symposium on Water Quality/Salinity Management
- History Seminar on Management of Historical/ Traditional Irrigation Projects
- Special Session on Driving Research for Change in Irrigation and Drainage Practices
- Special Sessions on Country Policy Support Programme (CPSP).
- YPF Workshop on Use of Water and Land for Food and Environmental Sustainability
- Special Session on Comprehensive Assessment of Water Management in Agriculture
- Special Session on Outcome of Land and Water Management of the 7<sup>th</sup> Inter-regional Conference on Environment and Water
- Special Session on On-Farm Irrigation Technologies
- Workshop on Benchmarking and Quality Assurance
- Workshop on Evaluation of Draft ICID Handbook on Sustainable Development of Tidal Areas
- Special Session on Legal and Institutional Challenges
- Workshop on Drainframe and their Case Studies
- Workshop on Multiple Roles and Diversity of Irrigation Water
- Special Session on Crisis of Transboundary Water Management in Lake Chad
- Workshop on Design and Implementation of Capacity Development Strategies
- TF1 : Task Force to Guide ICID Inputs to WWF4
- ACIAR Special Session
- CNCID Special Session on Introduction of Water Issues and Key Projects in China.
- Seminar on China - American Irrigation enterprises Technology and Business Cooperation
- Sessions on Question 52 : "Improving Water and Soil Management for Increasing Efficiency in Irrigated Agriculture".
- Sessions on Question 53 : "Harmonious Co-existence with Flood Water"

## **Important Decisions Taken during the 56<sup>th</sup> IEC**

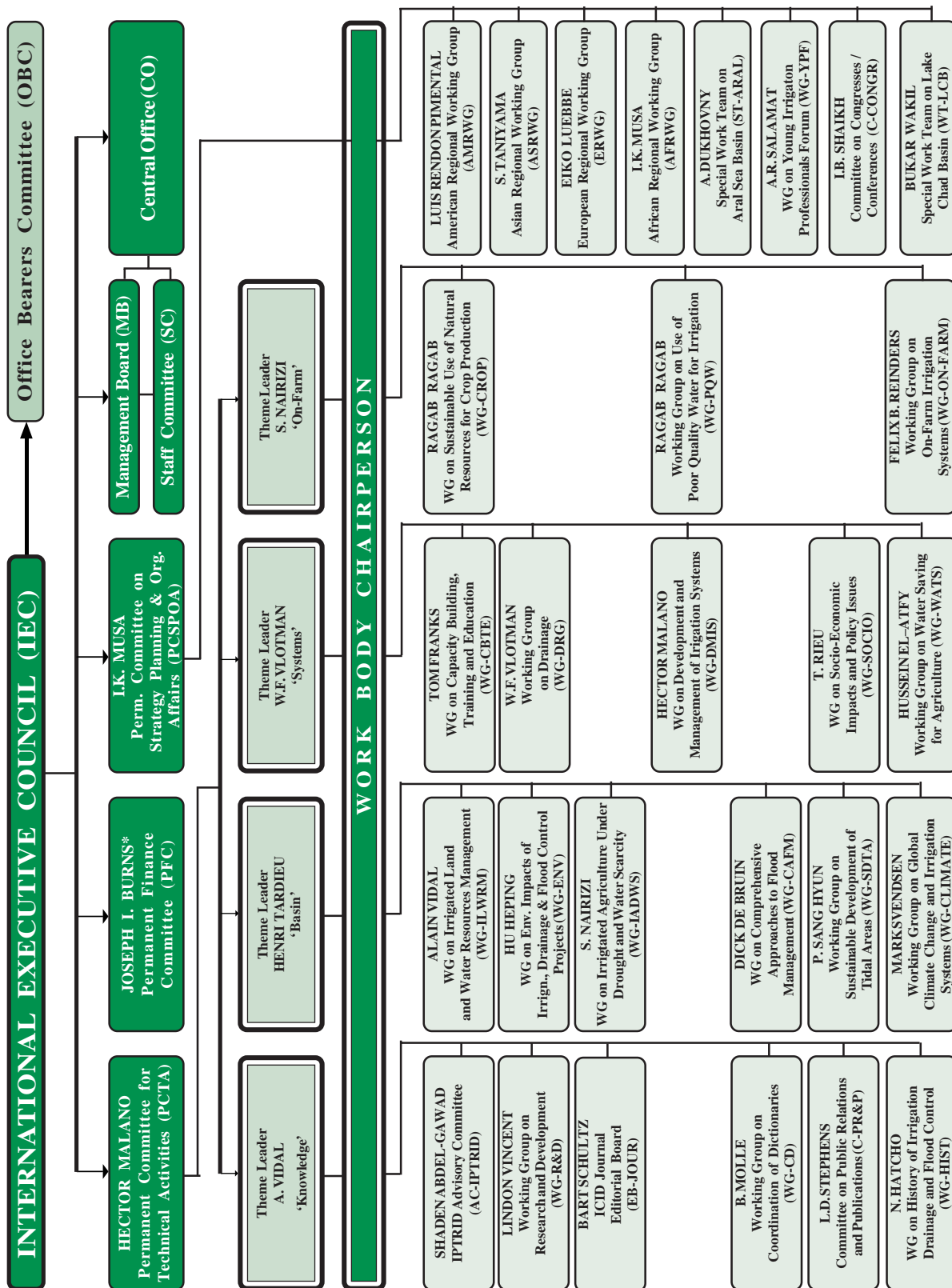
## **Meeting of ICID :**

- Two persons from a National Committee will be accepted to become members of a Working Group or Work Team provided one of them should be a Young Professional.
- A new Best Journal Paper Award (annual) was instituted.
- A new Working Group on Global Climate Change and Irrigation was created.
- Work Team on Poor Quality Water for Irrigation (WT-PQW) was converted into Working Group on Use of Poor Quality Water for Irrigation (WG-PQW).
- WG-DMIS and WG-ILWRM decided to wind up their work by 2006.
- WG-CBTE proposed to conclude its work by 2007.
- WG-IADWS proposed to wind up its activities by 2007.
- Suggestion to synergize the activities of WG-R&D and AC-IPTRID and to consider merger of the two work bodies.
- WG-ENV, WG-DRG, WG-DMIS, WG-PQW, WG-CLIMATE, WG-ON-FORM, WG-WATS, WG-CBTE, WG-CROP, WG-SDTA will organize workshop during the 57<sup>th</sup> IEC at Kuala Lumpur, Malaysia in September 2006.
- TF-LDCsAS will organize a Special Session on Least Developed Countries in Asia : Development with partnership – Avenues for Cooperation" at the 57<sup>th</sup> IEC meeting.
- WG-HIST plans to organize History Seminars during 2007 in Iran and 2008 in Pakistan.
- WG-SOCIO will hold a Workshop during the 58<sup>th</sup> IEC meeting on 'Socio-economic Impacts of Institutional Options for Sustainable Agricultural Water Management' in 2007 in USA.
- WG-ON-FARM to hold its 7<sup>th</sup> International Micro-Irrigation Congress in Malaysia during the 57<sup>th</sup> IEC meeting.
- ASRWG will organize 3<sup>rd</sup> Asian Regional Conference at Kuala Lumpur during 57<sup>th</sup> IEC.
- Finland and Estonia National Committees jointly to hold the 10<sup>th</sup> International Drainage Workshop in Helsinki in 2008.
- Indian National Committee (INCID) to host the 5<sup>th</sup> Asian Regional Conference in 2009, on the theme "Improvement in Efficiency of Irrigation Projects through Technology Up gradation & Better O&M".
- Indonesian National Committee (INACID) to host the 6<sup>th</sup> Asian Regional Conference and 61<sup>st</sup> IEC in 2010.

# Organogram of ICID Work Bodies



ICID-CID



\* As on 31st March 2006

<b>OFFICE-BEARERS COMMITTEE (OBC)</b> .....	9
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<b>PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA) (20 Work Bodies)</b> .....	9
<b>Theme: 'Knowledge' (6 Work Bodies)</b>	
IPTRID Advisory Committee (AC-IPTRID) .....	11
Working Group on Research and Development (WG-R&D) .....	11
ICID Journal Editorial Board (EB-JOUR) .....	11
Working Group on Coordination of Dictionaries (WG-CD) .....	12
Committee on Public Relations and Publications (C-PR&P) .....	12
Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST) .....	12
<b>Theme: 'Basin' (6 Work Bodies)</b>	
Working Group on Integrated Land and Water Resources Management (WG-ILWRM) .....	13
Working Group on Environmental Impacts of Irrigation, Drainage and Flood Control Projects (WG-ENV) .....	13
Working Group on Irrigated Agriculture under Drought and Water Scarcity (WG-IADWS) .....	13
Working Group on Comprehensive Approaches to Flood Management (WG-CAFM) .....	14
Working Group on Sustainable Development of Tidal Areas (WG-SDTA) .....	14
Working Group on Global Climate Change and Irrigation (WG-CLIMATE) .....	14
<b>Theme: 'Systems' (5 Work Bodies)</b>	
Working Group on Capacity Building, Training and Education (WG-CBTE) .....	15
Working Group on Drainage (WG-DRG) .....	15
Working Group on Development and Management of Irrigation Systems (WG-DMIS) .....	15
Working Group on Socio-Economic Impacts and Policy Issues (WG-SOCIO) .....	16
Working Group on Water Saving for Agriculture (WG-WATS) .....	16
<b>Theme: 'On-Farm' (3 Work Bodies)</b>	
Working Group on Sustainable Use of Natural Resources for Crop Production (WG-CROP) .....	16
Working Group on Use of Poor Quality Water for Irrigation (WG-PQW) .....	17
Working Group on On- Farm Irrigation Systems (WG-ON-FARM) .....	17
<b>PERMANENT FINANCE COMMITTEE (PFC)</b> .....	24
<b>PERMANENT COMMITTEE ON STRATEGY PLANNING AND ORGANIZATIONAL AFFAIRS (PCSPOA)</b> .....	24
<b>(8 Work Bodies)</b>	
African Regional Working Group (AFRWG) .....	25
American Regional Working Group (AMRWG) .....	25
Asian Regional Working Group (ASRWG) .....	25
European Regional Working Group (ERWG) .....	26
Special Work Team on Aral Sea Basin (ST-ARAL) .....	26
Working Group on Young Irrigation Professionals Forum (WG-YPPF) .....	26
Committee on Congresses/Conferences (C-CONGR) .....	27
Special Work Team on Lake Chad Basin (ST-LCB) .....	27
<b>TASK FORCES</b>	
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<b>TF2</b> on Global Issues Related to Food Production, Security and Trade .....	31
<b>TF-IBWT</b> on Inter Basin Water Transfers .....	31
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<b>TF-LDCsAS</b> for Identifying Priority Issues for Least Developed Countries in Asia .....	31
<b>TF-EIF</b> for Suggesting Effective Mechanism for Involvement of Farmers in ICID Activities .....	32

# Mandates and Compositions of Work Bodies



ICID-CID

## MANAGEMENT BOARD (MB)

### Mandate

The Management Board is responsible with the Central Office, for implementation of the decisions made by Council, and will decide such actions in between Council meetings, as are necessary to properly effect the working of the Commission.

### Members

**1 April 2005 to 24 September 2005**

(i) President, Dato' Ir. Hj. Keizrul bin Abdullah (Malaysia) - Chairman; (ii) Vice President Hon. Prof. Costantino Fasso (Italy), Chairman, Permanent Committee for Technical Activities (PCTA); (iii) Vice President Hon. Engr. I.K. Musa (Nigeria), Chairman, Permanent Committee on Strategy Planning and Organizational Affairs (PCSPOA); (iv) Vice President Hon. Mr.

Peter S. Lee (United Kingdom), Chairman, Permanent Finance Committee (PFC); and (v) Engr. M. Gopalakrishnan, Secretary General, ICID

### From 25 September onwards

(i) President Mr. Peter S. Lee (United Kingdom), {*Chairman, Permanent Finance Committee (PFC) (uptil 7 December 2005)*} - Chairman; (ii) President Hon., Dato' Ir. Hj. Keizrul bin Abdullah (Malaysia); (iii) Vice President Hon. Dr. Hector M. Malano (Australia), Chairman, Permanent Committee for Technical Activities (PCTA); (iv) Vice President Hon. Engr. I.K. Musa (Nigeria), Chairman, Permanent Committee on Strategy Planning and Organizational Affairs (PCSPOA); (v) Mr. Joseph I. Burns, Acting Chairman, Permanent Finance Committee; and (*since 7 February 2006*); and (vi) Engr. M. Gopalakrishnan, Secretary General, ICID

## STAFF COMMITTEE (SC)

### Mandate

The Staff Committee shall review and formulate the work procedures and the staff structure of the Central Office in keeping with the changing requirements of ICID and advise the Secretary General on the functioning of the Central Office.

### Members

(1) President Mr. Peter S. Lee, Chairman (UK); (2) Mr. Joseph I. Burns (Acting Chairman, Permanent Finance Committee); (3) Mr. R. Jeyaseelan, Chairman, Indian National Committee of ICID; and (4) Er. M. Gopalakrishnan, Secretary General, ICID

## OFFICE-BEARERS COMMITTEE (OBC)

### Mandate

The Office-Bearers Committee shall be composed of the Office-Bearers in Office and the Honoraire Office-Bearers and will in general advise on all important questions concerning the policy, the orientation and the overall functioning of ICID. One of the primary duties is to make recommendations for filling the vacancies among Office-Bearers.

## PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)

### Mandate

The Permanent Committee for Technical Activities shall be concerned with all the technical activities of the Commission including the issuing of all publications of ICID. It will be responsible for the activities of the technical work bodies, for selection of Questions/Themes for Congresses, Conferences, Special Sessions, Symposia, etc., for settlement of the technical conclusions thereof and for making appropriate recommendations for action thereon.

### Members

(1) Prof. Hector Malano, Chairman (Australia, 2005); (2) Mr. Larry D. Stephens, Secretary (USA, 2003); (3)

Dr. G.G. Guluyk (Russia, 2002); (4) Mr. R. Jeyaseelan, Vice President ICID (India, 2004); (5) Dr. Hussein Ehsan El-Atfy (Egypt, 2005); (6) Prof. Daniele De Wrachien (Italy, 2005); (7) Dr. Yohei Sato (Japan, 2005); and (8) Secretary General, ICID.

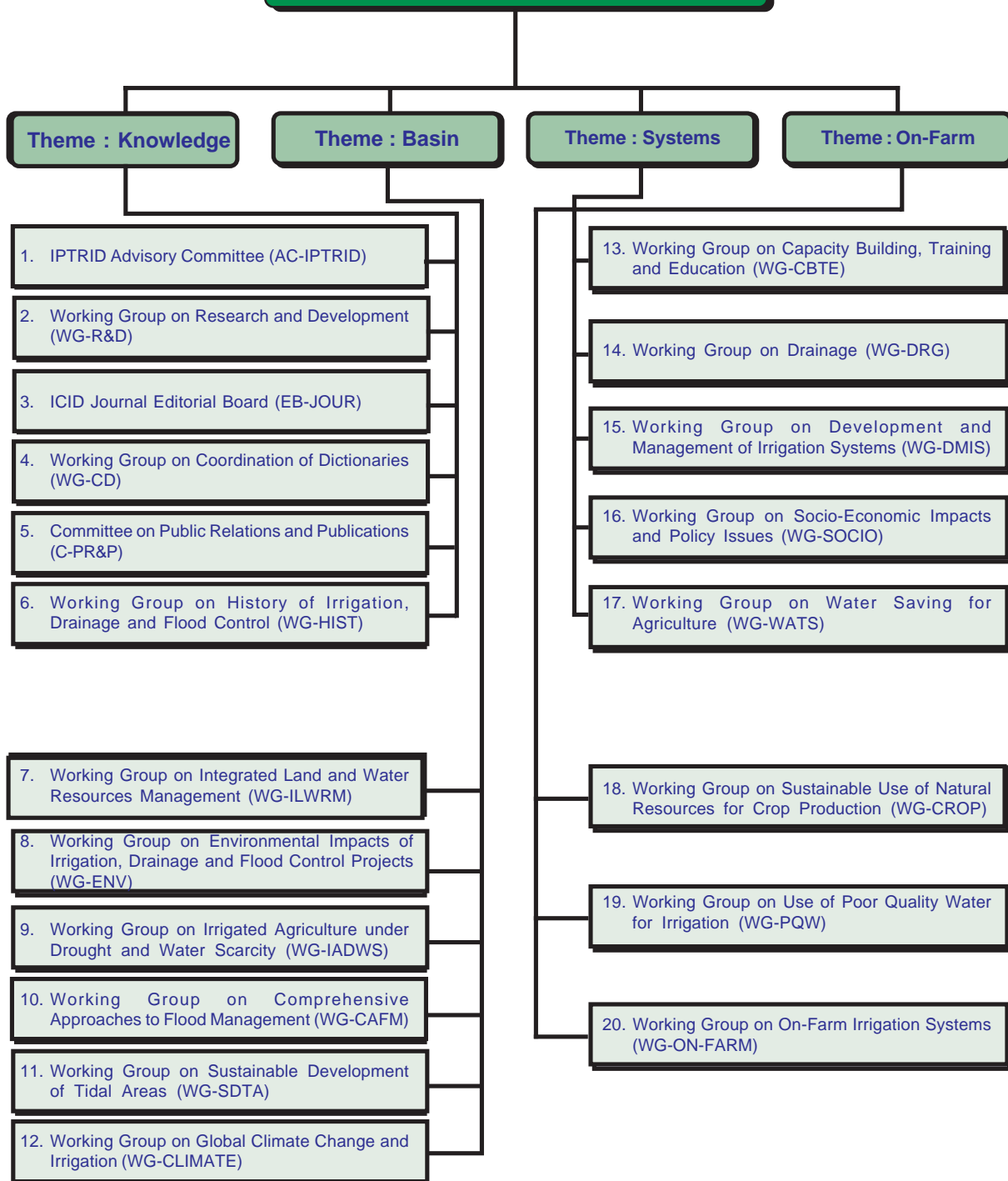
### Permanent Observers

(i) World Bank representative; (ii) FAO representative; (iii) IWMI representative; (iv) ISO representatives; (v) WWC representative; and (vi) IPTRID representative.

### Ex-Officio Members

(i) All Strategy Theme Leaders; (2) Chairpersons of all workbodies under PCTA.

## Permanent Committee for Technical Activities (PCTA)



**1.1 – IPTRID Advisory Committee (AC-IPTRID)****Mandate**

To give advice on IPTRID programs, prioritize research needs, provide positive expressions of demand for research, suggest new research requirements and foster cooperation amongst key institutions/ organizations.

**Members**

(1) Dr. (Mrs.) Shaden Abdel-Gawad, Chairperson (Egypt, 2001); (2) Mr. J. Lelkes (Hungary, 1998); (3) Dr. (Mrs.) Irene Bondarik (Russia, 2001); (4) Mr. Yuanhua Li (China, 2003); (5) Mr. S.K. Chaudhuri (India, 2003); (6) Mr. Geoff Pearce (UK, 2003), (7) Representative of Mexican National Committee (MXCID); (8) Representative of Nigerian National Committee (NINICID); (9) Representative of Indonesian National Committee (INACID); and (10) Secretary General, ICID

**Permanent Observers**

(1) Dr. Carlos Garces-Restrepo (Italy), Program Manager, IPTRID Representative; (2) FAO Representative; (3) World Bank Representative; (4) Mr. I.W. Martin, IWMI Representative; (5) President Peter S. Lee, Chairman, CG-IPTRID (UK); (6) Mr. Campoare Moussa Laurent (ARID-Burkina Faso); (7) Prof. (Mrs.) L. Vincent, Chairperson, WG-R&D.

**1.2 – Working Group on Research and Development (WG-R&D)****Mandate**

To keep National Committees informed of relevant new developments in irrigation, drainage and flood control and to promote multidisciplinary research, effective training and technology transfer, and assessment of the impacts R&D makes on performance in the field. To this end, act as the focal point for ICID's liaison with IPTRID and other relevant research bodies such as FAO and IWMI and networks serving the irrigation and drainage professionals.

**Members**

(1) Prof. L. Vincent, Chairperson (The Netherlands, 1995); (2) Mr. Stephen Mills, Vice Chairman (Australia, 2005); (3) Prof. L. Ubertini, Secretary (Italy, 1989); (4) Dr. J.M.M. Mendiluce (Spain, 1992); (5) Dr. H. Fahmy (Egypt, 1995); (6) Mr. A. Delacourt (France, 1995); (7) Dr. John A. Replogle (USA, 1999); (8) Mr. Sietan Chieng (Canada, 2001); (9) Prof. Jiesheng Huang (China, 2003); (10) Prof. J.G. Annandale (South Africa, 2003); (11) Mr. Ezzatollah Farhadi (Iran, 2005); (12) Dr. K. Palanisami (India, 2005); (13) Dr. Mohammad Che Husain (Malaysia, 2005); (14) Dr. Yohei Sato (Japan, 2005); and (15) Secretary General, ICID.

**Permanent Observers**

(i) World Bank representative; (ii) IPTRID representative; (iii) FAO representative; and (iv) IWMI representative

**MERGER OF AC-IPTRID & WG-R&D**

In view of the decisions at the meetings of AC-IPTRID, WG-R&D, PCTA, and 56<sup>th</sup> IEC held in Beijing, China in September 2005, merger of the AC-IPTRID and WG-R&D has been proposed.

**1.3 – ICID Journal Editorial Board (EB-JOUR)****Mandate**

- To ensure with the Editor that the Journal is published in accordance with editorial policy;
- To select and recommend to IEC, through PCTA, the appointment of Editor and Associate Editors;
- To review and update editorial policy when required to conform with the developing ICID objectives;
- To address and resolve issues pertaining to the Journal; and
- To review guidelines for authors, manuscript reviewers and book reviewers and liaise and coordinate with ICID work bodies.

**A. Members (Editorial Team)**

**Chairman:** (1) Prof. dr. Bart Schultz, President Hon., ICID, The Netherlands (2002)

**Editor:** (2) Prof. J.M. van Hofwegen, The Netherlands (2001)

**Editor Emeritus:** (3).Dr. D. Zimmer, France (2004)

**Associate Editors :**

(4).Mr. Melvyn G. Kay, Great Britain(2001), (5). Prof. Dr. R. Nakamura, Vice President Hon. Japan (2001), (6) Prof. Hector Malano, Vice President Hon., Australia (2001), (7)Dr. Bryan P. Thoreson, USA (2001), (8) Mrs. Isabelle M. Proulx, Canada (2003), (9) Prof. Dr. James Murray de Jager, South Africa (2003), (10) Prof. (Mrs.) Ir. Indreswari Guritno, Indonesia (2004), (11) Mr. Bernard Prefol, France (2005), (12) Dr. Benjamin de Leon Mojarro, Mexico (2005)

**Members (Editorial Board) :**

(13) Prof. Dr. F. Ligetvari, Vice President Hon., ICID, Hungary (2001), (14) Mr. Larry D. Stephens, Vice President Hon., ICID, USA (2001), (15) Prof. L.S. Pereira, Vice President Hon., ICID, Portugal (2001), (16) Prof. Xu Zhifang, Vice President Hon., ICID, China (2001), (17) Dr. M.H. Amer, Vice President Hon., ICID, Egypt (2001), (18) Prof. Daniele de Wrachien, Italy (2001), (19) Ir. Keizrul bin Abdullah, President Hon. ICID, Malaysia (2001), (20) Dr. S. Nairizi, Vice President Hon., ICID, Iran (2001), (21) Prof. E.U. Nwa, Vice

President Hon., ICID, Nigeria (2001), (22) Dr. C. Perry, Great Britain (2001), (23) Dr. A. Kandiah, USA (2001), (24) Ing. Manuel Contijoch Escontria, Vice President Hon., ICID, Mexico (2001), (25) Dr. Muhammad Latif, Pakistan, (2002), (26) Prof. Kwun, Soon-Kuk, Vice President Hon., ICID, Korea (2003), (27) Prof. Dr. Joachim Quast, Germany (2004), (28) Dr. Vijay K. Labhsetwar, Director-II, ICID, Central Office.

#### 1.4 – Working Group on Coordination of Dictionaries (WG-CD)

##### Mandate

- To encourage the preparation and publication of translations of the English/French revised edition of the Multilingual Technical Dictionary (MTD) on Irrigation and Drainage into additional languages;
- To produce copies of the MTD in other formats, especially electronic, so as to make it more valuable to users; and
- To produce periodic updates on all sections of the MTD.

##### Members

(1) Mr. B. Molle, Chairman (France, 2003); (2) Dr. E. Kruse (USA); (3) Dr. P. Buri (Italy); (4) Prof. Cai Lingen (China); and (5) Mr. K.N. Sharma, Secretary, ICID Central Office.

##### Permanent Observers

(1) FAO Representative; (2) WMO Representative; (3) IWMI Representative; (4) Prof. Hector Malano (Australia); and (5) Mr. Larry D. Stephens (USA), Chairman, C-PR&P.

#### 1.5 – Committee on Public Relations and Publications (C-PR&P)

##### Mandate

- To describe the economic, social and environmental aspects of water resources projects, which help to provide food and fibre to mankind through irrigation; to identify the audiences and their interests and suggest the appropriate type of communication and who should carry it out; to encourage National Committees to adopt a proactive role in communicating the role of water resources projects in serving mankind; and to encourage the use of communications specialists to ensure that the ICID public relations effort is effective.
- General management tasks - Development of concept of ICID publication series; set procedure for approval of publications; identification of (inter) national publishers and setting up of cooperative arrangements; marketing and pricing; and

cooperation with publishers and National Committees for sale of publications.

- Editorial management tasks - Monitoring of and liaison with authors and editors on proposed and approved manuscripts; classification of proposed manuscripts for the relevant ICID services; calculation of prices and costs; fixing number of copies of books; public relations for publications, recommendations on subsequent publications of ICID.

##### Members

(1) Mr. Larry D. Stephens, Chairman (USA, 1991); (2) Mr. Peter S. Lee (UK, 1993); (3) Ir. Paul van Hofwegen, Editor, ICID Journal (The Netherlands, 1995); (4) Dr. W.F. Vlotman (The Netherlands, 1995); (5) Prof. Hsieh, Yung-Hsu (Chinese Taipei, 1998); (6) Ms. Anne Currey (Australia, 1998); (7) Dr. Dia El-Din Ahmed El-Quosy (Egypt, 1998); (8) Mr. Hassan Rahimi (Iran, 2000); (9) Prof. Atef Hamdy (Italy, 2004); (10) Mr. B.S. Ahuja (India, 2005); and (11) Secretary General, ICID.

##### Ex-Officio Members

(1) Mr. Satit Maneepai (Thailand).

#### 1.6 – Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST)

##### Mandate

To motivate ICID National Committees in various countries to set up their National Working Groups and provide them guidance to compile, publish, update and/or translate documents on history of irrigation, drainage, flood control, and river engineering, incorporating relevant agricultural, political, socio-economic, climatological and geographical aspects for proper understanding of the technological developments in the subject, if possible chronologically. Furthermore, to organize seminars at ICID Congresses in order to show to experts the importance of historical studies when planning new projects.

##### Members

(1) Prof. N. Hatcho, Chairman (Japan, 1996); (2) Dr. Hubert Toussaint, Secretary (The Netherlands, 2005); (3) Prof. Dr. H. Fahlbusch (Germany, 1987); (4) Dr. Ricardo S. Graino (Spain, 1992); (5) Mrs. F. Sinatti (Italy, 1994); (6) Prof. Libor Jansky (Slovakia, 1996); (7) Mrs. Xuming Tan (China, 1997); (8) Dr. S.H. Lee (Korea, 1997); (9) Dr. Naser Shayan (Iran, 1998); (10) Dr. Illahi B. Shaikh (Pakistan, 2000); (11) Dr. Laszlo Hayde (Hungary, 2001); (12) Mr. Yu, Chin-Chi (Chinese Taipei, 2001); (13) Prof. Zorko Kos (Croatia, 2002); (14) Mr. Aliyu Jada (Nigeria, 2002); (15) Mr. Satit Maneepai (Thailand, 2002); (16) Dr. Alexis Vogel (Austria, 2002); (17) Mr. B.D. Pateria (India, 2003); (18) Mr. Jean Verdier (France, 2003); (19) Dr. Hafied A. Gany

(Indonesia, 2005); (20) Mr. Charles A. Abernethy (Great Britain, 2005); and (21) Secretary General, ICID.

### Observers

(i) Dr. (Mrs.) B. Doling (The Netherlands).

## 2 - THEME: 'BASIN'

### 2.1 – Working Group on Integrated Land and Water Resources Management (WG-ILWRM)

#### Mandate

- Prepare inventory of existing research results, principles and methodologies for managing land and water resources at the scale of river basins where irrigation and drainage are represented in significant areas or volumes;
- Examine the recommendations already issued by GWP at global and regional scales in this domain, and identify possible gaps where ICID could complement GWP actions;
- Prepare inventory of decision making methods and tools in ILWRM;
- Identify best practices on selected river basins, and elaborate a methodological guide based on these best practices;
- Issue recommendations on short-term technical and economical actions, and on mid-term research, to be undertaken to promote ILWRM in irrigated and drained areas and
- Examine the specific case of ILWRM on transboundary basins in cooperation with the Working Group on Socio-economic Impacts and Policy Issues and the Working Group on History of Irrigation, Drainage and Flood Control.

#### Members

(1) Dr. Alain Vidal, Chairman (France, 1993); (2) Dr. M.G. Bos, Vice Chairman (The Netherlands, 2002); (3) Mr. Russell Boals, Secretary (Canada, 2001); (4) Mr. L.K. Oosthuizen (South Africa, 1995); (5) Prof. C. Fasso (Italy, 1999); (6) Prof. Joachim Quast (Germany, 2000); (7) Mr. Yuansheng Pei (China, 2002); (8) Dr. Mark Svendsen (USA, 2005); (9) Mr. Denis Flett (Australia, 2003); (10) Mr. M.S. Adamu (Nigeria, 2003); (11) Mr. Ezatollah Farhadi (Iran, 2005); (12) Mr. A. de Jesus Mendes (Portugal, 1990); (13) Dr. Chae-Soo, Kim (Korea, 2003); (14) Mr. V. Bhanumurthy (India, 2003); (15) Dr. Ricardo Segura Graino (Spain, 2002); and (16) Secretary General, ICID.

#### Permanent Observers

(i) Mr. T. Rieu, Chairman, Working Group on Socio-Economic Impacts and Policy Issues (France); (ii) Dr.

W.F. Vlotman, Chairman, Working Group on Drainage (The Netherlands); (iii) Prof. N. Hatcho, Chairman, Working Group on History of Irrigation, Drainage and Flood Control (Japan); (iv) Dr. I. Makin (IWMI); (v) Dr. Daniel Ranault, (FAO); and (vi) GWP representative.

### 2.2 – Working Group on Environmental Impacts of Irrigation, Drainage and Flood Control Projects (WG-ENV)

#### Mandate

To understand the process of environmental impact analysis making this a part of all project evaluation, major environmental problems as addressed by each country, and effects of irrigation and drainage on the natural environment, flora, fauna and human beings; and recognizing the project/site specific nature of the problem, to provide guidance to project designers and managers in identifying and minimizing adverse environmental impacts.

#### Members

(1) Dr. Hu Heping, Chairperson (China, 2000); (2) Prof. Yih-Chi Tan, Vice Chairman (Chinese Taipei, 1995); (3) Mr. Barkat Hadid (Syria, 1991); (4) Mr. Alfred Heuperman (Australia, 1993); (5) Prof. Laszlo Vermes (Hungary, 1995); (6) Dr. Smiljan Juvan (Slovenia, 1995); (7) Dr. Shaden Abdel Gawad (Egypt, 1996); (8) Mr. M. Yokozawa (Japan, 1996); (9) Dr. Eiko Lubbe (Germany, 1997); (10) Prof. Almeida Fernandez (Portugal, 1997); (11) Prof. Julius Valtyni (Slovak Republic, 1999); (12) Mr. Mohammed Kazem Siahi (Iran, 2000); (13) Mr. Osmo Antero Purhonen (Finland, 2002); (14) Mr. Stefano Salbitani (Italy, 2003); (15) Dr. Choi, Joong-Dae (Korea, 2003); (16) Mr. Belguenani Hassane (Morocco, 2003); (17) Dr. M.E. Haque (India, 2003); (18) Prof. Dr. Natha Hungspreug (Thailand, 2003); (19) Dr. Ge van den Eertwegh (The Netherlands, 2005); (20) Dr. Jose A. Ortiz Fdz.-Urrutia (Spain, 2005); (21) Dr. Dennis Wichelns (USA, 2005); and (22) Secretary General, ICID.

#### Observers

(i) FAO representative; (ii) ICOLD representative; (iii) World Bank representative; (iv) Dr. D. Zimmer (WWC); (v) Mr. Primož Banovec (Slovenia); (vi) Dr. H. El-Atfy (Egypt); (vii) Prof. Hector Malano (Australia).

### 2.3 – Working Group on Irrigated Agriculture under Drought and Water Scarcity (WG-IADWS)

#### Mandate

- To identify and study the phenomena of drought and water scarcity in their various manifestations, and the ecological, social, economic and political implications thereof in the context of irrigated agriculture;

- To identify research priorities and will contribute to the achievement of the above-mentioned objectives, and to promote the execution of this research;
- To promote the development of appropriate technology packages to manage irrigated agriculture in situations of drought and water scarcity;
- To study and propose possible alternative cropping patterns suitable for situations of drought and water scarcity; and
- To provide guidelines for the formulation of policies and decision support strategies for the management and utilization of water resources for irrigation under conditions of drought and water scarcity.

### Members

(1) Dr. S. Nairizi, Chairman (Iran, 2000); (2) Dr. G.R. Backeberg, Vice Chairman (South Africa, 1999); (3) Mr. F. Dimick, Secretary (USA, 1998); (4) Dr. Ragab Ragab (Great Britain, 1998); (5) Dr. J.M. Rodriguez-Chaparro (Spain, 1998); (6) Dr. S. Szalai (Hungary, 1998); (7) Mr. A. Villocel (France, 1998); (8) Prof. R.P. Serralheiro (Portugal, 1999); (9) Mrs. Mu Jianxin (China, 2000); (10) Dr. Hussein El Atfy (Egypt, 2001); (11) Mr. Pulat Umarov (Uzbekistan, 2001); (12) Mr. Anthony John Horton (Australia, 2002); (13) Dr. Abdul Majeed (Pakistan, 2002); (14) Dr. Graziano Ghinassi (Italy, 2003); (15) Dr. D.K. Paul (India, 2003); (16) Dr. T. Watanabe (Japan, 2003); and (17) Secretary General, ICID.

### Observers/Permanent Observers

(i) Prof. J.M. de Jager, Executive Team on Irrigation under Limited Water Availability (South Africa); (ii) Dr. S. Taniyama, Asian Regional Working Group (Japan); (iii) WMO Representative; (iv) Prof. L. Vermes, European Regional Working Group (Hungary); (v) World Bank Representative; and (vi) FAO Representative.

## 2.4 – Working Group on Comprehensive Approaches to Flood Management (WG-CAFM)

### Mandate

- To identify and disseminate various structural and non structural measures of flood management; and
- To study the social, political and economic aspects of flood mitigation measures, ecologically sound development, international cooperation, as well as people's participation in disaster preparedness.

### Members

(1) Mr. Dick de Bruin, Chairman (The Netherlands, 2003); (2) Mr. J. Astier, Vice Chairman (France, 1990); (3) Prof. J.L. Montanes, Secretary (Spain, 1987); (4) Mr. V.C. Ballard (Australia, 1992); (5) Dr. Takeshi Hata (Japan, 1993); (6) Dr. J. van Duivendijk (The Netherlands, 1996); (7) Dr. Lajos Szlavik (Hungary,

1996); (8) Prof. M.F. Viljoen (South Africa, 1997); (9) Mr. R. Jeyaseelan (India, 1998); (10) Mr. P. Burrows (Great Britain, 1999); (11) Dr. K. Emami (Iran, 1999); (12) Mr. Jin Soo Kim (Korea, 2000); (13) Dr. Illahi B. Shaikh (Pakistan, 2001); (14) Prof. Josip Petras (Croatia, 2002); (15) Mr. Bruce C. Moore (USA, 2002); and (16) Secretary General, ICID.

### Permanent Observers

(1) FAO representative; (2) UNDRRO representative; (3) WMO representative; and (4) World Bank representative.

## 2.5 - Working Group on Sustainable Development of Tidal Areas (WG-SDTA)

### Mandate

- To collect information about the natural environment in tidal areas around the world;
- To identify sustainable development and conservation options in the tidal areas; and
- To find a balance between the preservation and development of tidal areas.

### Members

(1) Dr. Park Sang Hyun, Chairman (Korea, Rep. of, 2002); (2) Mr. Jonathan Simm, Vice Chairman (Great Britain, 2002); (3) Ir. Henk P. Ritzema, Secretary (The Netherlands, 2002); (4) Ir. Mohd. Azhari Ghazalli (Malaysia, 2002); (5) Prof. Cai Lingen (China, 2002); (6) Dr. Indreswari Guritno (Indonesia, 2002); (7) Mr. E.J. James (India, 2002); (8) Dipl. Ing. Bernd Probst (Germany, 2003); (9) Mr. Ueda Kazumi (Japan, 2003); and (10) Secretary General, ICID.

### Observers

(i) Mr. Daesu Eo (Korea, Rep. of); (ii) Mr. R.H. Susanto (Indonesia); and (iii) FAO/IPTRID Representative.

## 2.6- Working Group on Climate Change and Irrigation (WG-CLIMATE)

### Mandate

- Rising global temperatures;
- Altered rainfall patterns;
- Melting polar icecaps and retreating mountain glaciers;
- Rising sea levels;
- Increasing climatic variability;
- Increasing incidence of extreme climatic events; and
- Increasing atmospheric carbon dioxide concentrations.

## Members (provisional)

(1) Dr. Mark Svendsen, Interim Chairman (USA); (2) Dr. T. Watanabe (Japan); (3) Dr. Mohamed AbdEl-Aty (Egypt); (4) Dr. Rolu P. Encarnacion (Philippines); (5) Dr. Krishana Kumar Kaniki Charla (India); (6) Prof. Roland E. Schulze (South Africa); (7) Ir. C.W.J. Roest (The Netherlands); (8) Prof. Dr. Daniele de Wrachien (Italy); (9) Dr. A. Musy (Switzerland); and (10) Secretary General, ICID.

## Permanent Observers

(i) Mr. Avinash Tyagi (WMO); (ii) Dr. Claudia Ringler (IFPRI); and (iii) Ms. Lisa Schipper (IWMI).

## 3 - THEME : 'SYSTEMS'

### 3.1 – Working Group on Capacity Building, Training and Education (WG-CBTE)

#### Mandate

- Compile a set of selected cases to describe the current situation, draw lessons from these cases and prepare guidelines for best practices in land and water management on (i) the creation and establishment of an enabling environment, (ii) the institutional setting including beneficiary participation, and (iii) the development and strengthening of human resources and managerial systems.
- Compile the status of training and educational programmes offered in different regions, identify the training and education requirements, identify gaps and prepare guidelines for development and appropriate modification of education and training programmes and strengthening of education and training institutions to meet the changing requirements of the sector.
- Facilitate the process of balancing education and training requirements, and provision and training services.

#### Members

(1) Prof. Tom Franks, Chairman (UK, 1996); (2) Mr. A. Delacourt, Secretary (France, 1996); (3) Dr. M. Satoh (Japan, 1998); (4) Dr. Ferri Putuhena (Indonesia, 1999); (5) Mr. Hu Heping (China, 1999); (6) Dr. Muhammad Latif (Pakistan, 2002); (7) Mr. S.K. Das (India, 2003); (8) Prof. Dr. Atef Hamdy (Italy, 2004); (9) Prof. Dr. (Mrs.) Dalal S. Alnaggar (Egypt, 2004); (10) Mrs. Ir. Catharien Terwisscha van Scheltinga (The Netherlands, 2004); (11) Dr. Amin Alizadeh (Iran, 2004); (12) Prof. Dorota Z. Haman (USA, 2004) (13) Mr. Kim Russell (Australia, 2005); and Secretary General, ICID.

#### Permanent Observers

(i) IPTRID representative; (ii) FAO representative; (iii) IWMI representative; (iv) Chairman, WG-R&D; (v) UNESCO-IHE Representative; (vi) Ir. Paul van Hofwegen,

Senior Water Management Expert (WWC).

### 3.2 – Working Group on Drainage (WG-DRG)

#### Mandate

- To determine state of the art of construction and maintenance of surface and subsurface drainage systems under various conditions;
- To investigate case histories concerning disposal and/or reuse of saline drainage water; and
- To develop simulation models.

#### Members

(1) Dr. W.F. Vlotman, Chairman (The Netherlands, 2000); (2) Dr. Sami Bouarfa, Secretary (France, 2003); (3) Prof. Dr. B. Maticic (Slovenia, 1987); (4) Dr. M.H. Amer (Egypt, 1988); (5) Mr. I. Dakar (Syria, 1991); (6) Dr. M.S. Adamu (Nigeria, 1992); (7) Dr. D. Zimmer (France, 1992); (8) Ir. Keizrul bin Abdullah (Malaysia, 1994); (9) Dr. Chung Sang-Ok (Korea, 1996); (10) Mr. Chen, Hung-Kwai (Chinese Taipei, 1997); (11) Ms. Wang Shaoli (China, 1999); (12) Dr. E. Christen (Australia, 2000); (13) Dr. Mohammad Bybordi (Iran, 2000); (14) Mr. S.K. Das (India, 2001); (15) Mr. Yasunobu Matoba (Japan, 2001); (16) Dr. M. Nawaz Bhutta (Pakistan, 2002); (17) Mr. Rauno Peltomaa (Finland, 2002); (18) Dr. (Ms.) Waltina Scheumann (Germany, 2003); (19) Dr. James Ayars (USA, 2005); and (20) Secretary General, ICID.

#### Observers/Permanent Observers

(i) FAO representative; (ii) World Bank representative; (iii) Dr. C. Madramootoo (Canada); (iv) Mr. H.W. Denecke (IPTRID); (v) Mr. Aly M. Shady (Canada); (vi) Prof. dr. Bart Schultz (The Netherlands); and (vii) Prof. Hector Malano (Australia).

### 3.3 – Working Group on Development and Management of Irrigation Systems (WG-DMIS)

#### Mandate

To provide a continuing focus in ICID for improvement of irrigation systems, combining design and construction with operation, maintenance and progressive modernization and management to deliver the appropriate level of service to the users, on a financially, physically and institutionally sustainable basis.

#### Members

(1) Prof. Hector Malano, Chairman (Australia, 1998); (2) Dr. Martin Burton, Secretary (Great Britain, 2002); (3) Dr. Huh, Yoo-Man (Korea, 1999); (4) Eng. Joao Manuel Braganca (Portugal, 1999); (5) Mr. Lee, Tsong-Hwei (Chinese Taipei, 1999); (6) Mr. Thomas E. Mitchel (USA, 1999); (7) Dr. Siripong Hungspreug (Thailand, 1999); (8) Ir. Robert Brouwer (The Netherlands, 1999);

(9) Dr. Jiasheng Huang (China, 1999); (10) Mr. Y. Yukawa (Japan, 1999); (11) Prof. C. Fasso (Italy, 1999); (12) Prof. J.L. Montanes (Spain, 1999); (13) Dr. M.K. Siah (Iran, 2000); (14) Mr. Mahesh Chander (India, 2002); (15) Dr. Dia El-Quosy (Egypt, 2003); (16) Mr. Francois Onimus (France, 2005); and (17) Secretary General, ICID.

#### Observers/Permanent Observers

(i) FAO representative; (ii) World Bank representative; (iii) IPTRID representative; (iv) IWMI representative; (v) Dr. Wayne O. Deason (USA); (vi) Mr. Peter S. Lee (UK); (vii) Dr. D. Zimmer (France); (viii) Mr. P.J.M. van Hofwegen (The Netherlands); and (ix) Mr. H. Plusquellec (USA).

### 3.4 – Working Group on Socio-Economic Impacts and Policy Issues (WG-SOCIO)

#### Mandate

- To establish evaluation parameters for judging economic, social and cultural changes brought about by irrigation development;
- To develop appropriate criteria for quantification of economic benefits as assessment of social benefits accruing from introduction of irrigation;
- To formulate guidelines for economic and financial analysis of irrigation projects; and
- To evaluate different models for financing and amortization and financially sound management of irrigation projects.

#### Members

(1) Dr. Thierry Rieu, Chairman (France, 1998); (2) Ms. Felicity Chancellor, Vice Chairperson (UK, 2005); (3) Dr. (Ms.) Anisa Divine, Secretary (USA, 2000); (4) Mr. M.F. Viljoen (South Africa, 1998); (5) Mr. Mohd. Ali (Indonesia, 1998); (6) Ing. Josef Miskovsky (Czech Republic, 1999); (7) Dr. S.A. Assadollahi (Iran, 2000); (8) Mr. Francois Lelandais (France, 2003); (9) Dr. Shahbaz Khan (Australia, 2003); (10) Mr. S.V. Sodal (India, 2003); (11) Prof. Sylvain Perret (South Africa, 2003); (12) Mr. Vicente Carcelen (Spain, 2003); (13) Prof. Yohei Sato (Japan, 2004); (14) Dr. (Ms.) Margreet Zwarteveen (The Netherlands, 2005); (15) Secretary General, ICID.

#### Observers/Permanent Observers

(i) IFPRI Representative; (ii) IWMI Representative; (iii) World Bank Representative; (iv) Asian Development Bank (ADB) Representative; and (v) Mr. Waseem Nazir (Pakistan).

### 3.5 – Working Group on Water Saving for Agriculture (WG-WATS)

#### Mandate

- To promote successful water conservation among member countries as part of appropriate water management;
- To understand and compare water conservation programs and lessons from member countries;
- To provide guidelines to member countries on national and regional water conservation programs;
- To promote the building of partnerships between member countries; and
- To recognize water saving successes.

#### Members

(1) Eng. Hussein El-Atfy, Chairman (Egypt, 2000); (2) Dr. Alain Vidal (France, 1995); (3) Mr. John Osterberg (USA, 1995); (4) Dr. J.M.M. Mendiluce (Spain, 1996); (5) Dr. Hsu, Shiang-Kueen (Chinese Taipei, 1997); (6) Prof. Kaipeng Jiang (China, 2003); (7) Mr. D. Datta (India, 2003); (8) Mr. Neil Louis Lecler (South Africa, 2003); (9) Prof. Atef Hamdy (Italy, 2004); (10) Mr. Kim Russell (Australia, 2005); and (11) Secretary General, ICID.

#### Observer

(i) Mr. John Hennessy, President Hon., ICID (UK)

## 4 - THEME : 'ON-FARM'

### 4.1 – Working Group on Sustainable Use of Natural Resources for Crop Production (WG-CROP)

#### Mandate

- To execute and promote suitable crop water and environmental models under hydric constraints;
- To promote methods to optimize irrigation water supplied under different agro pedoclimatic conditions;
- To study methods and techniques for irrigation scheduling and to include use of rain and irrigation for sustained crop production and environment; and
- To promote appropriate techniques and models for environmental enhancement following UNCED's Agenda 21.

#### Members

(1) Dr. Ragab Ragab, Chairman (Great Britain, 1993); (2) Prof. A. Mermoud, Secretary (Switzerland, 1991); (3) Dr. B.I. Maticic (Slovenia, 1987); (4) Prof. M.E.V. Scarascia (Italy, 1988); (5) Prof. R.G. Allen (USA, 1991); (6) Mr. L.C. Tollefson (Canada, 1993); (7) Prof. Cai Lingen (China, 1995); (8) Prof. L. Vermes (Hungary, 1995); (9) Dr. Y. Nakano (Japan, 1996); (10) Mr. Tai

Cheol Kim (Korea, 1996); (11) Dr. C.W.J. Roest (The Netherlands, 1999); (12) Dr. R. Lal Yadav (India, 2000); (13) Mr. Chen Yih-Rong (Chinese Taipei, 2001); (14) Dr. Shahid Ahmad (Pakistan, 2002); (15) Mr. Vincente Carelon (Spain, 2003); (16) Dr. Andrew Sanewe (South Africa, 2005); and (17) Secretary General, ICID.

#### Permanent Observers

(i) FAO representative; (ii) Mr. Herbert H. Van Lier (CIGR); and (iii) Prof. D. Wrachien (Italy).

#### 4.2 – Working Group on Use of Poor Quality Water for Irrigation (WG-PQW)

##### Mandate

To produce guidelines on irrigation management under poor quality waters, including saline and brackish water.

##### Members

(1) Dr. R. Ragab, Chairman (Great Britain, 1997); (2) Dr. Frans Huibers, Secretary (The Netherlands, 1999); (3) Dr. Heinrich M. du Plessis (South Africa, 1998); (4) Dr. K. Shiati (Iran, 1997); (5) Dr. Jan Salek (Czech Republic, 1998); (6) Dr. N.K. Tyagi (India, 1998); (7) Mr. Jose Manuel Arango Maldonado (Mexico, 1998); (8) Dr. Wen-Lin Chang (Chinese Taipei, 1998); (9) Dr. Gao Zhanyi (China, 1998); (10) Dr. Samia El-Guindy (Egypt, 1999); (11) Dr. Ramzan Choudhry (Pakistan, 2000); (12) Mr. S. Seyama (Japan, 2001); (13) Mr. C.G. Croke (Australia, 2001); (14) Mr. Martin Roche (USA, 2002); (15) Ms. Esther O. Ogunniyi (Nigeria, 2002); (16) Mr. Ghannami Mohamed (Morocco, 2003); (17) Mr. Bernard Vincent (France, 2003); (18) Dr. Jorge Tarchitsky (Israel, 2004); and (19) Secretary General, ICID.

#### Permanent Observer

FAO representative.

#### 4.3 – Working Group on On-Farm Irrigation Systems (WG-ON-FARM)

##### Mandate

- To promote the science and art of on-farm technology (mechanized and micro irrigation);
- To improve irrigation management and optimal use of resources and its technology transfer; and
- To study its impact on crop yields and water usage under various situations and conditions.

##### Members

(1) Mr. Felix B. Reinders, Chairman (South Africa, 1998); (2) Dr. Peter Kovalenko, Vice Chairman (Ukraine, 2001); (3) Mr. Stephen Mills, Secretary (Australia, 2001); (4) Dr. Jan Hribik (Slovak Republic, 1998); (5) Dr. H. Sourell (Germany, 1999); (6) Dr. Kim Sun-Joo (Korea, 1999); (7) Dr. S. Nairizi (Iran, 1999); (8) Mr. Yeh Shu-Shr (Chinese Taipei, 1999); (9) Mr. P. Ruelle (France, 1999); (10) Prof. Pedro Liao de Sousa (Portugal, 1999); (11) Mr. J. Dunn (Great Britain, 2002); (12) Mr. Yan Guanyu (China, 2002); (13) Mr. M.S. Bala (Nigeria, 2002); (14) Dr. J.A. Ortiz (Spain, 2003); (15) Dr. J.E. Ayars (USA, 2003); (16) Mr. Graziano Ghinassi (Italy, 2004); (17) Prof. Y. Nakano (Japan, 2004); (18) Dr. A.K. Randev (India, 2005); (19) Secretary General, ICID.

##### Permanent Observers

(i) Mr. B. Molle (France, ISO); and (ii) FAO representative.

## Activities of Work Bodies under PCTA

### A. Work Bodies Covered by the Strategy Theme “KNOWLEDGE” (ST.K)

#### A.1. IPTRID Advisory Committee (AC-IPTRID) – Estd. 1995

International Program for Training and Research in Irrigation and Drainage (IPTRID) seeks to find its niche as a facilitator in providing a link between research and development acknowledging the ever changing world besieged by poverty and hunger. Its mission goals guides its path and to quote it :

“To improve the uptake of research, exchange of technology and management innovations by means of capacity development in the irrigation and drainage systems and sectors of developing countries to reduce poverty, enhance food security and improve

livelihoods, while conserving the environment”.

Following a good debate on this at the Consultative Group meeting in Montpellier in 2003, when it came out clearly that IPTRID’s particular niche was in facilitating the uptake of research and transfer of technology in irrigation, for the benefit of developing countries, this became IPTRID’s central focus. As how to develop the capacity of developing countries to sustain an increase in the productivity of irrigated agriculture, became the focus of Beijing discussions. The Consultative Group meeting held in Beijing recommended a shift away from capacity development into a more research and technology oriented Program.

The Consultative Group has held that research and technology should be the central focus of IPTRID, as these are the attributes that differentiate it from the

many other organizations that undertake capacity development. A Triennial External Evaluation was presented to the Beijing Meeting of the Consultative Group, which found that in order to attract more funding, IPTRID should place more emphasis on capacity development, and the “T” and “R” words in the program’s title were no longer central to its identity, in spite of what was said in the mission statement. The evaluation confirmed that there was now a broad agreement that the emphasis on capacity development had undermined IPTRID’s identity without adding much by way of additional financial support. The Consultative Group accepted this and came to the view that capacity development was a means by which IPTRID might improve the uptake of research and exchange of technology, but not an end in itself.

ICID intends to play as a Central partner of IPTRID. ICID will rationalize its interface with IPTRID. IPTRID will be a member of ICID’s Permanent Committee for Technical Activities.

### A.2. Working Group on Research and Development (WG-R&D) – Estd. 1994

During the Moscow meeting, the Working Group on Research and Development discussed points from a list of ‘Suggestions for Priority Issues of ICID National Committees’ compiled by Central Office from the inputs received from the National Committees of Germany, Macedonia, Slovakia, Pakistan, Uzbekistan and Australia. The Chairman, WG-R&D presented the points and discussed new possible areas of work for the WG and topics of very general or very specific interest that might need specialist’s advice. The WG emphasized that it wanted to work on the processes that bridge the gap between research and practices rather than on specific detailed topics. With this idea the WG-R&D organized a Special Session on “Driving Research for Change in Irrigation and Drainage Practices” in the Beijing Meeting.

On the basis of the decision that arrived in the session, the representatives from Australia, India, Malaysia, South Africa, and Netherlands are assembling data of their national structures for R&D activities and funding and the Group has scheduled further discussions in Kuala Lumpur, Malaysia in September 2006. A merger of WG-R&D and AC-IPTRID was agreed so as to avoid duplication of efforts and to become more effective.

### A.3. ICID Journal Editorial Board (EB-JOUR) – Estd. 1994

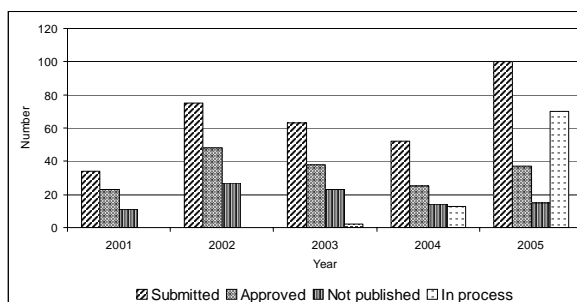
From April 2005 to March 2006, five issues of the Journal were published on time. In addition to the five issues a Special Issue on Wastewater Irrigation had also been published. This Special Issue was a sponsored issue, which had been prepared in close cooperation with IWMI, IWA and Wageningen University. The data given in Table reflects the characteristics.

### Characteristic data on the issues for the year 2005

Issue	Number of papers	Pages	Additional	Publication date
54.1	10	123		February
54.2	9	125		April
54.3	8	113		July
Special Issue	11	118	Wastewater Irrigation	July
54.4	9	121		October
54.5	8	93		December

In total 123 authors had published in the 2005 issues, originating from 29 countries/committees. For each issue, Central Office had submitted two pages with information on ICID.

Figure given below shows the development of the submission of papers and the status. In 2005, exactly 100 papers had been submitted, which is substantially more than in the previous years. This is partly caused by the Special Issue, for which 11 papers were submitted. By the end of December 2005, 70 papers were in the review process and 15 were ready for publication.



The full text of Irrigation and Drainage is available through Wiley InterScience ([www.interscience.wiley.com/irrigationanddrainage](http://www.interscience.wiley.com/irrigationanddrainage)) for all issues published from 2001 to date. Access to abstracts is freely available to all guest users, with viewing of full text papers.

Irrigation and Drainage is one of the periodicals listed in the ISI Science Journals Citation Index under the number ISSN 1531-0353. It appears in the categories Water Resources and Agronomy.

### ICID Distribution/National Committees 2005

Each National Committee receives ten copies of I&D issue based on the minimum 1000 copies paid by ICID Central Office. One copy of each issue to each individual who is an incumbent, or active honoraire office bearer, or an active member of an ICID work body is made available. These copies are sent by Wiley directly.

It was decided at the Beijing meeting that starting from the IEC meeting in Kuala Lumpur; an Award will be presented annually for the best paper published in the Journal starting from the preceding year-2005 onwards. The Editor in consultation with the Associate Editors will make the selection for the best paper. The Award

will have a plaque and books published by M/s. John Wiley & Sons Ltd. The agreement for publishing the ICID Journal through M/s. John Wiley & Sons Ltd. has been extended for a further 3-year term, 2006-2008. Wiley will continue to provide copies of the Journal to ICID members as before. The individual members' subscription rate for the Journal for the year 2006 will be US\$ 30 for online access and US\$ 35 for online access as well as for the hard copies. The Wiley website <<http://www.interscience.wiley.com/irrigationanddrainage>> also provides an 'Early View' option, which shows new papers that are placed on the website as soon as they have been processed after the review.

#### **A.4. Working Group on Coordination of Dictionaries (WG-CD) – Estd. 1998**

The Chinese National Committee of ICID (CNCID) had completed the translation work of ICID Multilingual Technical Dictionary (MTD) into Chinese language. The National Committees of Iran and Korea have been translating the MTD into their respective languages. The process of revision of various chapters of the MTD is under progress. The next revised edition of the ICID MTD is expected to be published on CD-ROM at the time of the 58<sup>th</sup> IEC in USA in the year 2007. More details can be viewed from the web site of the WG website <<http://www.wg-cd.icidonline.org>>.

#### **A.5. Committee on Public Relations and Publications (C-PR&P)**

The main ICID publications, which were brought out during the period 2005-2006 were Transactions Volumes of 19<sup>th</sup> ICID Congress (Abstracts Vols – 1A, 1B, General Reports – 1C, and Keynote Addresses – 1D and CD-ROM), Planning and Designing of Micro-Irrigation in Humid Regions, Proceedings of the International Workshop on Multiple Roles on Diversity of Irrigation Water, 14 September 2005, Beijing, China, and the 9 reports covering the Country Policy Support Program (under the grant of the Government of The Netherlands).

The ICID website had frequent updating. The Committee made further suggestions, which included adding more historic information with regard to CVs of past Office-Bearers, past Award Winners, providing link to the National Committee's Newsletters and extending link to more water and irrigation related sites. At present, 20 work bodies of ICID have established individual websites for projecting their activities.

A re-design of the ICID Newsletters has been made. The Newsletters are brought out in a new format since the 4<sup>th</sup> quarter issue of 2005. As a venture to promote sale of ICID Publications, names and addresses of potential buyers such as technical universities, colleges, institutions, irrigation departments, organizations, book publishers and sellers, have been collected and the Central Office is sending details regarding ICID

publications (including the fliers of new publications) to all of them. Care has also been taken to insert the ICID publications' details while sending Newsletters/ News Updates of ICID to various stakeholders. For more details about the publications of ICID, please log on to ICID website <[www.icid.org](http://www.icid.org)>.

#### **A.6. Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST) – Estd. 1980**

The WG-HIST received the Best Performing Work body Award (BPWA) for the tenure 2002-2005. The BPWA was instituted in 2003 to recognize the performance of a work body between the two congresses. The WG-HIST obtained the first such Award at Beijing meeting by considering its performance with respect to (i) publications of more than 30 volumes of Water History related documents and books including Historical Dams (2001), The Danube Valley (2004), the Indus Basin (2004), A History of Water Issues (UNU, 2005), and History of Irrigation and Drainage of various member countries and (ii) in organizing seminars in every ICID congress and other conferences such as the History of Water Sessions at WWF-2 in The Netherlands and WWF-3 in Japan. Prof. N. Hachio (Japan) is the Chairman of the Group since 2002.

During the period from 1 April 2005 to 31 March 2006, progresses were reported on individual documents from concerned countries for History of Irrigation in Eastern Asia. The history publications by Indonesia and Italy were under expansion. Spanish National Committee sent the English version of the summary of the book on "History of Irrigation and Drainage in Spain", which was earlier, brought out in Spanish language. A successful seminar on 'Management of Historical/ Traditional Irrigation Projects' was held in Beijing. More details can be viewed from the WG-HIST website <<http://www.wg-hist.icidonline.org/>>.

The WG plans to organize History Seminars during 2007 in Iran and 2008 in Pakistan.

### **B. Work Bodies Covered by the Strategy Theme "BASIN" (ST.B)**

#### **B.1. Working Group on Integrated Land and Water Resources Management (WG-ILWRM) – Estd. 1998**

Presentations of ILWRM country experiences continued to be an important activity of the WG-ILWRM. Four country case studies were presented by Dr. Mark Svendsen (USA); Mr. Russell Boals (Canada); Mr. Yuansheng Pei (China) and Mr. M.S. Adamu (Nigeria) during the Beijing meeting and the same were uploaded on the WG website <http://www.afeid.montpellier.cemagref.fr/ilwrm/wg-ilwrm.htm>. IWMI, who has a Regional Resource Center (RRC) for the Global Water Partnership (GWP) communicated that the relevant information on GWP Initiatives is accessible from <http://www.gwp.org/>

[/www.iwmi.org/gwp](http://www.iwmi.org/gwp). The WG agreed to form a team (Dr. Vidal, Mr. Russell Boals, and Dr. Svendsen) to review the country case studies presented at the WG meetings and to select 3 to 4 papers for the special edition of the ICID Journal. Prof. Quast (Germany) reported on the Declaration issued from the 21<sup>st</sup> European Regional Conference (ERC) held in May 2005 and the Topic 5 of the conference was focused on ILWRM. The papers for the session included were ILWRM tools for planning, operations, monitoring and evaluation. An interim meeting of the WG was also held during the 21<sup>st</sup> ERC.

Chairman Vidal reported during the meeting that a Task Force under the Chairmanship of President Hon. Aly Shady would govern ICID's strategy for participation in the 4th World Water Forum (WWF-4). The Task Force held its meeting separately during the IEC in Beijing. The Working Group was requested to provide case studies for a session at the WWF-4. The WG has developed its own website <<http://www.wg-ilwrn.icidonline.org>> and may be viewed to know more details about the activities of the WG.

### **B.2. Working Group on Environmental Impacts of Irrigation, Drainage and Flood Control Projects (WG-ENV) – Estd. 1986**

During the 20<sup>th</sup> meeting, the WG desired to compile lessons learnt from the "Three Gorges Dams Project", in China. Mr. Osmo Antero Purhonen (Finland) suggested to follow the guidelines of World Bank to assess environmental impacts of large dams. South Korea proposed that the environmental and socio-economic aspects of large dams be also considered.

It emerged from the proceedings that the work on "Methane Flux from Irrigated Wetland Rice Fields: The Effect of Water Management and Rice Variety" is nearing completion. The details of climate change circulation model were presented at the Beijing meeting and it was suggested that Water Management Practices need to be integrated with their atmospheric response in order to obtain reliable regional-scale water balances. In Kuala Lumpur, the Work body meetings of both Global Climate Change and Irrigation and this Group will be scheduled back to back for a free exchange of views/cross fertilizations. The WG also intends to hold a workshop in Kuala Lumpur in September 2006.

### **B.3. Working Group on Irrigated Agriculture under Drought and Water Scarcity (WG-IADWS) – Estd. 1996**

A bibliography on Irrigation under Conditions of Drought and Water Scarcity has been recently completed and put on a CD. A CD of 'Policy Guidelines for the Evaluation of Social, Economic and Political Impacts of Drought and Aridity' was distributed at the Beijing meeting to the Working Group members for its review and make comments/suggestions on the guidelines.

As a measure to disseminate case studies, a decision was also taken in the Beijing meeting to include case studies in the evaluation report. An editorial team has also been established to review and finalize the report. Compilation of the 'General Questionnaire on the Water Status of ICID member countries' is in progress. So far, ten countries have completed the questionnaire. The WG has successfully interacting with the Work Team, ERWG on "Drought Mitigation Strategies". The website of WG-IADWS <<http://www.wg-iadws.icidonline.org>> may be viewed for more details.

In Beijing meeting, a proposal was taken to wind up the WG's activities by 2007.

### **B.4. Working Group on Comprehensive Approaches to Flood Management (WG-CAFM) – Estd. 1999**

The Central Office of ICID facilitated the printing of a new Manual on "Planning of Structural Approaches to Flood Management" prepared by Dr. J. van Duivendijk (The Netherlands) in co-operation with the Working Group members. This was launched and promoted at the 21<sup>st</sup> European Regional Conference held at Frankfurt (Germany) and Slubice (Poland) in May 2005.

During the WG meeting in Beijing, four presentations were made by the WG members on : (i) Forecast based reservoir flood operations by Mr. Maurice Roos (USA) - (ii) Overview of flood problems in China over the past century, and new policies to harmonise co-existence between floods, droughts and the human population by Mr. Kun Gang Li (China); (iii) "Catastrophic urban flooding" by Mr. R. Jayaseelan (India), and (iv) Recent failures and overtopping of coffer-dams in Iran by Dr. K. Emami (Iran).

A workshop on "Flood Management" was organized by the WG on 11 September 2005 at Beijing in which the following presentations were made : (i) President Hon. Prof. B. Schultz (The Netherlands) presented a keynote address and overview; (ii) Mr. M. Roos (USA) described flood control in California; (iii) Dr. T. Hata (Japan) described environmental maintenance measures for a large dam in Japan; (iv) Mr. Chen (representing Delft Hydraulics) described developments by Delft in 1D/2D floodplain modeling; (v) Dr. J. van Duivendijk (Netherlands) summarized the development and contents of the 1999 and 2005 manuals prepared by the WG; (vi) Dr. K. Emami (Iran) described the construction and functioning of a 600 year old dam in Iran; (vii) Prof. J. Montanes (Spain) described a dam-related landslide and casualties in a remote area in Spain; and (viii) Mr. P. Borrowes (UK) presented a review of risk, safety and insurance practices in urbanized areas in UK.

The workbody's efforts to Forum 4 is significant. A paper on the theme "Risk Management" was prepared and submitted by the WG-CAFM as the ICID contribution to the 4<sup>th</sup> World Water Forum held at Mexico in March

2006 through Beacons of the Theme of WMO. Mr. Dick de Bruin, Chair of the WG in co-operation with Mr. P. Borrows (UK), prepared an ICID document on 'The Management of Riverine Flood Risk'; this, inter alia, covers views/comments from Bangladesh, Indonesia, Iran, Japan, Pakistan, The Netherlands, Uzbekistan, UK and USA.

### **B.5. Working Group on Sustainable Development of Tidal Areas (WG-SDTA) - Estd. 2001**

The main aim of the WG is to produce an "ICID Handbook on Sustainable Development of Tidal Areas". To do this, the WG has been focusing on the following study items: (i) Identify criteria or decision support system to find sustainable development schemes for the planning and design of dikes and related structures; (ii) Integrate irrigation, drainage and flood management practices in reclaimed area; (iii) Study physical, chemical and biotic characteristics of the tidal areas; (iv) Examine management and institutional aspects and production system in reclaimed areas; (v) Enhance community participation in the sustainable development of tidal areas (WS Topic in 2004); (vi) Study socio-economic impacts and cost/benefit analysis of various development alternatives; (vii) Establish historic aspects of tidal reclamation; (viii) Incorporate integrated approaches for sustainable development and conservation options.

The editorial responsibilities for preparing various chapters have been shared by the WG/WT members and are as follows : (i) Introduction (Jonathan Simm, UK and Henk Ritzema, The Netherlands); (ii) Aspects of managing development of tidal areas (Park Sang Hyun and Eo Daesu, Korea); (iii) Tidal and lowland features (Indonesia/Malaysia); (iv) Existing natural processes (China to lead, with support from Korea); (v) Engineering for SDTA (Dr. Hiramatsu, Japan); (vi) Tidal reclamation and their impact on natural processes (Bernd Probst, Germany); (vii) Integrated decision support framework (Jonathan Simm, UK and Henk Ritzema, The Netherlands).

All National Committees were urged to form national work team to support the work of preparation of the ICID Handbook. The Japanese National Committee (JNCID) established a Work Team (WT) to support the Work on SDTA. The Work Team comprises of Dr. S. Taniyama, Mr. Ueda Kazumi, Dr. Shikasyo, Dr. Kazuaki Hiramatsu, Mr. Yaokawa Tomoyo and Mr. Satoru Yoshimi. The JNC-ICID informed Dr. Park Sang Hyun, Chairman, WG-SDTA regarding Edition of Chapter 5 and various manuscripts in other subchapters and draft case studies such as Hachirogata (Mr. K. Tanaka); Kamedago (Dr. S. Taniyama); and Ariake (Dr. Shikasho). These studies have been included in the Handbook and also presented during the 4<sup>th</sup> workshop held at Beijing in September 2005.

In July 2005, Ir. J. Simm (UK) and Mr Henk Ritzema (The Netherlands) had a meeting to examine the

progress of the Handbook and to discuss the overall decision support framework. After the meeting they derived Vision, Principles and Objectives for SDTA to be included in the Proceedings of its Workshop.

The Korean National Committee (KCID) established a Work Team to support the Edition of Chapter 2 and prepare manuscripts of other Chapters of the Handbook on SDTA. The Work Team comprises of Mr. Kim Ju-Chang, Dr. Eo Daesu, Dr. Lee Deog-Bae (Secretary General, the Society of Agricultural Research on Reclaimed Lands in Korea), Dr. Jo Jin-Hoon (Secretary, International Network for Water and Ecosystem in Paddy Fields), Mr. Lee Bong-Hoon (Director, Ministry of Agriculture and Forestry), and others. The WT had a meeting with Ir. J. Simm for the preparation of Handbook during his Visit to Korea on 13 July 2005.

During the WG meeting at Beijing in 2005, actions agreed on the handbook were: (a) All member countries were requested to examine the vision and principles prepared by Mr Simm and Mr Ritzema; (b) All member countries were requested to form national WT to support the work of the ICID Handbook on SDTA; (iii) China was requested to arrange for the translation of its Chinese Handbook dealing with Tidal Areas; (iv) All contributions provided for the handbook should make clear links to sustainability principles; (v) Economic issues should be given due weightage in the handbook; (vi) Chapter leaders should submit their contributions to Chair by July 2006; and (vii) Mr. Simm (UK) to carry out final editing.

WG organized its 4th Workshop on "Evaluation of Draft ICID Handbook on SDTA" in two sessions at Beijing on 13 September 2005 with the support of Chinese National Committee.

### **B.6. Working Group on Global Climate Change and Irrigation (WG-CLIMATE) – Estd. 2005**

The 56<sup>th</sup> meeting of the International Executive Council (IEC) held on 17 September 2005 at Beijing accepted the recommendation of the Permanent Committee for Technical Activities (PCTA) to establish a Working Group on "Global Climate Change and Irrigation" (WG-CLIMATE). Vice President Mark Svendsen (USA) was named interim Chairman of the working group. Nominations from 8 National Committees were received for the membership of the WG. Professionals from International Organizations viz., WMO, IWMI, IFPRI have indicated their interest to act as observers on the Group.

The purpose of WG-CLIMATE is to: (1) Raise awareness and stimulate discussion among National Committees, policy makers, and the general public on the implications of Global Climate Change (GCC) for irrigation, drainage, and flood control; (2) Share and collect experience with GCC and its water-related implications; and (3) Position of ICID to play a role in ongoing discussions of GCC effects related to irrigation,

drainage, and flood control. The WG will hold its first meeting and an 'Internal Workshop' at Kuala Lumpur in September 2006.

### **C. Work Bodies Covered by the Strategy Theme "SYSTEMS" (ST.S)**

#### **C.1. Working Group on Capacity Building, Training and Education (WG-CBTE) – Estd. 1995**

The Working Group on Capacity-Building, Training and Education (WG-CBTE) continues its programme of activities in developing knowledge and understanding of the capacity-building process in irrigation and drainage. In pursuit of this aim, the Working Group was involved in two major events during the year.

In September 2005 during the ICID Congress in Beijing, the WG held the third series of workshops on capacity-building. The topic on this occasion was Strategies for Planning and Implementing Capacity-Building and the workshop featured a keynote paper, together with 7 case studies from around the world. In addition, there was a keynote presentation from UNESCO-IHE on the baseline document Capacity-Building and Social Learning. The Beijing workshop followed and built on the outcomes of the two previous workshops, one held in Montpellier in 2003, which set the overall context for capacity-building, and one held in Moscow in 2004, which focussed specifically on assessing the needs for capacity-building.

For the Fourth World Water Forum in Mexico in March 2006, the WG members were active in convening a session on Capacity Development Strategies and Social Learning among Stakeholders for Sustainable Irrigation and Drainage Sector. The session, which the WG convened with the partnership of IPTRID and UNESCO-IHE, brought together three case studies of successful capacity development at the local levels, one each from South Africa, Nicaragua and Chile. A full report is available, together with a summary of the lessons learned from each of the case study in the 4WWF website.

WG-CBTE is now moving towards the end of its working programme. Through its various workshops, it has compiled a considerable number of cases in all aspects of capacity development and a wealth of knowledge is available through various publications emerging out of their workshops. Partners in FAO have been responsible for compiling a database of training courses and providers, thus fulfilling a further component of the WG's original mandate. The WG is now planning a final workshop in September 2006 at the ICID meeting in Kuala Lumpur. The WG is also considering a publication to bring together all the key lessons learnt. Details of these, and all other activities of the WG-CBTE, can be found on the website <<http://www.wg-cbte.icidonline.org/>>.

#### **C.2. Working Group on Drainage (WG-DRG) – Estd. 1983**

A workshop on DRAINFRAME was held on 13 September 2005 at Beijing, where the concept of DRAINFRAME as adopted in some select countries was presented and discussed. Participants supported for further dissemination and advancement of the DRAINFRAME concept in other countries. Hardcopies of the DRAINFRAME reports and a training CD-ROM were distributed to the participants. The presentations were posted on the WG webpage "The Drainline". The WG's website <<http://www.wg-drg.icidonline.org/>> is fully functional and hosts several useful information.

International Water logging and Salinity Research Institute (IWASRI) published a report titled "Review of Research on Re-use of Brackish Water" of Pakistan National Committee of ICID (PANCID) - the Sub-Committee on Drainage. Research papers of PANCID, namely on (i) Social Impact Assessment of Sub-Surface Drainage Projects in Pakistan (by Aftab H. Azhar, M. Rafiq and M.M. Alam); (ii) Groundwater Modeling to Assess the Effect of Interceptor Drainage and Lining (by H.C. Jansen, M.N. Bhutta, et al); (iii) Bio-Saline Approach for Rehabilitation of Salt Affected and Waterlogged Land in Pakistan (by Ali Hassan Shah, Muhammad ramzan Chaudhry, et al); (iv) Role of Sulphurous Acid Generator for Amending High RSC Waters and Reclaiming Salt-Affected Soils (by Muhammed Ramzan Chaudhry, Ali Hassan Shah, et al); (v) Impact of Sub-Surface Drainage Systems on Soil Environment (by Dr. Muhammad Mehboob Alam, Aftab H. Azhar, et al); and (vi) Development of Reference Evapotranspiration Software for Irrigation Planning and Scheduling (by Dr. Aftab Hussain Azhar, and B.J.C. Perera), were the key outcome papers during the reporting period from 1<sup>st</sup> April 2005 to 31<sup>st</sup> March 2006. They address various aspects relating to post-project complexities that may arise from various conditions/scenarios of the projects affecting the beneficiaries adversely and how to avoid them.

The WG agreed to Finland and Estonia National Committees proposal to hold the 10<sup>th</sup> International Drainage Workshop in 2008. The WG will hold its annual workshop in Kuala Lumpur in September 2006.

#### **C.3. Working Group on Development and Management of Irrigation Systems (WG-DMIS) – Estd. 1998**

One of the key activities of the WG-DMIS has been to hold 'Benchmarking Workshop' at the time of its annual meeting. At Beijing, the Workshop was held on 13 September 2005. Eight country papers and one introductory paper were presented at the workshop. A draft document on "Asset Management Manual" is under preparation and would be finalized at the Kuala Lumpur meeting. The activities of the working group will be concluded at the 57<sup>th</sup> IEC meeting in Malaysia, with a Workshop on "Modernization for Improved Service

Delivery". The workshop will enable all participants to discuss the main direction and scope of constitution of a new successor/working group. For more details, please visit the WG website <<http://www-wg-dmis.icidonline.org>>.

#### **C.4. Working Group on Socio-Economic Impacts and Policy Issues (WG-SOCIO) – Estd. 1998**

The WG is working on several important issues like preparing 'Guidelines on cost benefit analysis of irrigation and drainage projects', 'Economic valuation of the social and environmental impacts of large irrigation projects'. The working group is also engaged in compilation of worldwide information through questionnaires on "Water valuation in agriculture" and "Analysis of the role of women in irrigation". Final draft documents of some of these initiatives along with case studies will be discussed and made available at Kuala Lumpur meeting. To know more about the activities of the WG, please log on to the website <<http://www.wg-socio.icidonline.org>>.

The WG proposed to hold a Workshop on 'Socio-economic Impacts of Institutional Options for Sustainable Agricultural Water Management' in 2007 at the time of the 58<sup>th</sup> IEC in USA.

#### **C.5. Working Group on Water Saving for Agriculture (WG-WATS) – Estd. 1994**

A first draft of the document "Innovative Technologies and Management for Water Saving in Agriculture" was circulated at the Beijing meeting. The document is a compilation of past WatSave award winning papers/ case studies and success stories of water savings. The document will be further reviewed and a print version will be available at Kuala Lumpur meeting. The WG has its own webpage <[www.wg.wats.icidonline.org](http://www.wg.wats.icidonline.org)>. The WG jointly with Indian National Committee (INCID) and Malaysian National Committee (MANCID) will be holding an "International Workshop on Water Saving Technologies in Tropical Regions of Asia" at Kuala Lumpur in September 2006.

### **D. Work Bodies Covered by the Strategy Theme "ON-FARM" (ST.OF)**

#### **D.1. Working Group on Sustainable Use of Natural Resources for Crop Production (WG-CROP) – Estd. 1986**

As per the decision of the meeting held at Beijing, Guidelines for Food Production under Limited Water Supplies would be prepared by Dr. A.M. Castrignano (Italy) in cooperation with Dr. M.E.V. Scarascia (Italy) and the WG-IADWS. Recent contributions on "Agro-hydrology and irrigation efficiency" have been submitted by Prof. R.G. Allen (USA) and are made available on the WG website <<http://www.wg-crop.icidonline.org/>>

A summary paper on 'Politics on Genetically Modified Crops' has been submitted by Dr. Andrew Sanewe (South Africa) on the situation in South Africa. A comprehensive document including other African countries is proposed to be produced in the meeting in Malaysia. Dr. Y. Nakano (Japan) is expected to submit a document on the situation of GM-Crops in Asia. Prof. M.E.V. Scarascia (Italy) submitted layout of a document on "Multi-functionality of irrigated agro-eco-systems" which is to be elaborated in co-operation with Mr. Laurie C. Tollefson (Canada). A Workshop on "Water Saving Practices in Rice Paddy Cultivation" will be held in Malaysia in September 2006. Documents and the WG Newsletters have been uploaded on the WG website as mentioned above. Activities in the field of 'Organic versus Conventional Farming' and 'Precision Agriculture' are proposed.

#### **D.2. Working Group on Use of Poor Quality Water for Irrigation (WG-PQW) – Estd. 1995**

As per the decision of the 56<sup>th</sup> IEC meeting held on 17 September 2005 at Beijing, the earlier Work Team on Use of Poor Quality Water for Irrigation (WT-PQW) stands as a Working Group viz. WG-PQW (Working Group on Use of Poor Quality Water for Irrigation). The group is working on several important activities like 'Updating of database on water salinity/ use of wastewater related to agriculture', 'Guidelines on use of saline and brackish water', 'Cooperation with other international organizations dealing with the activities of the WG', 'Use of desalinated water for irrigation purposes', 'Environmental consequence of using poor quality water', and 'The impact of aquaculture on water quality'. At the Beijing meeting, Dr. Magdy Salah El-Deen and Dr. Samia El-Guindy (Egypt) made a presentation on the "Use of constructed wetlands as a low cost technology to treat wastewater in Egypt". Details on various activities of the Working Groups are accessible in the website: <<http://www.wg-pqw.icidonline.org>>.

Pakistan National Committee of ICID (PANCID) has under taken three studies for the WG-PQW, namely on (1) Testing of RISTECH technology for management of brackish drainage water for soil reclamation and crop production; (2) Use of sulphurous acid generator for treatment of brackish groundwater and reclamation of salt-affected soil; and (3) Evaluation of agro-magnetic technology for management of brackish water and its impact on soil and crops and are under progress. PANCID has also prepared a report on "Manual of Water Quality Criteria" for the WG-PQW and issued for the use of planners, executors and end-user farmers. A technical report for Review of Research on Reuse of Brackish Water has also been published by PANCID during the period in supportive of the WG-PQW for general information and practical use. The new studies such as – "Sustainable Reuse and Disposal of Drainage Effluent" and "Role of Effective Micro-organisms (EM) in Soil Reclamation and Crop Production" and "Use of Saline Land for Community Livelihood (trees, grasses,

crops, fish-ponds, livestock and honey bees, etc) that have been taken over by PANCID for the WG-PQW are in progress.

The Working Group proposed to hold a Workshop on the 'Environmental consequence of using poor quality water' at Kuala Lumpur in September 2006.

### **D.3. Working Group on On-Farm Irrigation Systems (WG-ON-FARM) – Estd. 1998**

A manual on "Planning and designing of micro-irrigation in humid regions" authored by Prof. Kuroda (Japan) and brought out by the Central Office was released at the Beijing meeting. A Special Session on "Latest trends in On-Farm Irrigation Technology" was organised by Israeli National Committee (ISCID) at Beijing on

September 2005. The objective of the session was to disseminate latest technological and institutional advances in on-farm irrigation technology in Israel. Papers presented during the session have been uploaded on the website <http://www.wg-on-farm.icidonline.org/>. The Australian National Committee (ANCID) in collaboration with the Australian Government's Department of Agriculture, Fisheries and Forestry (DAFF) organized a session for showing video-clippings of the innovative technologies. A booklet on "Best Irrigation technologies in Australia" brought out by the ANCID was circulated. The 7<sup>th</sup> International Micro Irrigation Congress (IMIC) will be held along with the 57<sup>th</sup> IEC meetings in Malaysia in September 2006. The theme of the Congress is "Advances in Micro Irrigation for Optimum Crop Production and Resource Conservation"

## *Mandates and Compositions of Work Bodies under PCSPOA*

### **PERMANENT FINANCE COMMITTEE (PFC)**

#### **Mandate**

The Permanent Finance Committee shall be concerned with the financial matters of the Commission and matters having significant financial implications to the Commission. It will review the receipts and expenditures, advise the Council on the previous years accounts and on the proposed or provisional budget and will make recommendations on the annual subscriptions and other support of the participating countries for the current and future years. It may give its opinion to the President and the Secretary General on the elements to be taken into account to prepare the budgets of the future years.

#### **Members**

(1) Mr. Joseph I. Burns, Acting Chairman (USA, 2003); (2) Dr. Jose M. Martin Mendiluce (Spain, 2000); (3) Dr. A.V. Kolganov (Russia, 2003); (4) Mr. Yuanhun Li (China, 2003); (5) Dr. Ing. Stefano Salbitani (Italy, 2003); (6) Dr. Kinji Ohashi (Japan, 2004); (7) Dr. Laszlo Hayde (Hungary, 2004); (8) Dr. K. Palanisami (India, 2005); and (9) Secretary General, ICID.

### **PERMANENT COMMITTEE ON STRATEGY PLANNING AND ORGANIZATIONAL AFFAIRS (PCSPOA)**

#### **Mandate**

The Committee shall be concerned with increasing the number of member countries and assisting the National Committees to become more active in their own countries to achieve goals set for them from time to time. The Committee will also undertake issues related to strategic planning for ICID. The Committee will coordinate the activities of Vice Presidents in their areas.

#### **Members**

(1) Vice President Engr. I.K. Musa, Chairman, (Nigeria, 2002); (2) Vice President Dr. Alain Vidal (France, 2003); (3) Vice President Mr. R. Jeyaseelan (India, 2003); (4) Vice President Prof. Victor A. Dukhovny (Uzbekistan, 2003); (5) Vice President Dr. YooMan, HUH (Korea, 2004); (6) Vice President Dr. Hussein El. Atfy (Egypt, 2004); (7) Vice President Dr. G.G. Gulyuk (Russia, 2004); (8) Vice President Dr. Mark Svendsen (USA, 2005); (9) Vice President Mr. Felix B. Reinders (South Africa, 2005); (10) Vice President Mr. Gao Zhanyi (China, 2005); (11) Vice President Hon. Prof. Cai Lingen (China, 2002); (12) Vice President Hon. Prof. André Musy (Switzerland, 2002); and (13) Er. M. Gopalakrishnan, Secretary General, ICID.

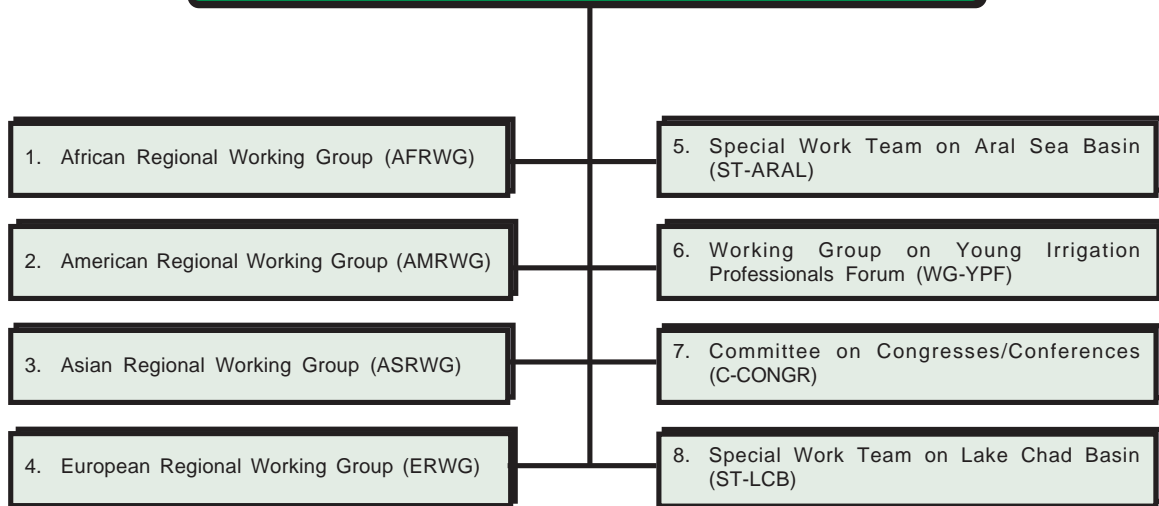
#### **Ex-Officio Members**

(1) Chairman, African Regional Working Group (2) Chairman, European Regional Working Group; (3) Chairman, Asian Regional Working Group; (4) Chairman, American Regional Working Group; (5) Chairman, Working Group on Young Irrigation Professionals Forum; (6) Chairman, Committee on Congresses/Conferences; (7) Chairman, Special Work Team on Aral Sea Basin; and (8) Chairman, Special Work Team on Lake Chad Basin.

#### **Permanent Observers**

(i) FAO representative; (ii) World Bank representative; (iii) GWP representative; and (iv) Dr. D. Zimmer, WWC representative.

## Permanent Committee on Strategy Planning and Organizational Affairs (PCSPOA)



### E.1. African Regional Working Group (AFRWG)

#### Mandate

To promote links and networking among the African countries as well as regional and international institutions for enhancing cooperation and coordination, and to support integrated river basin development, training and research issues and information system for African needs.

**Members** (1) Engr. I.K. Musa, Chairman (Nigeria, 1996); (2) Dr. H. Fahmy, Vice Chairman (Egypt, 1996); (3) Mr. M.S. Bala, Secretary (Nigeria, 2002); (4) Ms. Raphaele Ducrot (France, 1999); (5) Dr. Sizwe Michize (South Africa, 2001); (6) Mr. Mekonnen Loulseged (Ethiopia, 2002); (7) Kenya Representative; and (8) Secretary General, ICID.

#### Permanent Observers

(i) FAO Representative; (ii) World Bank Representative; (iii) IPTRID Representative; (iv) Mr. Jean Syrogianis Camara (Italy); (v) Mr. A. de Vito (Italy); (vi) Mr. Deric. S. Mono (Zambia) and (viii) Ms Felicity Chancellor (Great Britain).

### E.2. American Regional Working Group (AMRWG)

#### Mandate

- To assist in the development of broad-based ICID National Committees in Americas;
- To obtain and disseminate information on irrigation and drainage in Americas;
- To organize national and international discussions on relevant scientific and technical issues; and
- To provide the catalyst for promoting better contact with the ICID and other relevant international organizations.

#### Members

(1) Dr. Luis Rendon Pimentel, Convener (Mexico, 2004); (2) Dr. Dennis Wichelns (USA, 2005); (3) Dr. Jaime Collado (Mexico, 2005); (4) Representative from Brazil; (5) Representative from Canada; (6) Representative from Chile; (7) Representative from Guyana; and (8) Secretary General, ICID.

#### Observers

(i) Dr. Jose A. Ortiz Urrutia (Spain); and (ii) Representative from Portuguese.

### E.3. Asian Regional Working Group (ASRWG)

#### Mandate

To focus on common topics and issues and is to enhance the transfer of appropriate technology in irrigation and drainage to and from the Asian Region. The mission of ASRWG is to encourage membership and to coordinate activities in the region.

#### Members

(1) Dr. S. Taniyama, Chairman (Japan, 1997); (2) Ir. Mohd. Azhari Ghazali, Secretary (Malaysia, 1997); (3) Mr. Anthony J. Horton (Australia, 1997); (4) Dr. Karim Shiati (Iran, 1997); (5) Dr. Cheong, Byeong-Ho (Korea, 1997); (6) Mr. Khem Raj Sharma (Nepal, 1997); (7) Eng. A.S. Manoharadas (Sri Lanka, 1997); (8) Mr. Tauhidul Anwar Khan (Bangladesh, 1998); (9) Dr. Siripong Hungspreug (Thailand, 1998); (10) Mr. Bakhodyr M. Yusupov (Uzbekistan, 1998); (11) Mr. Waseem Nazir (Pakistan, 1999); (12) Mr. Kuo, Sheng-Feng (Chinese-Taipei, 2001); (13) Mr. Sastrodihardjo Siswoko (Indonesia, 2002); (14) Mr. Li Daixin (China, 2003); (15) Dr. Nobumasa Hatcho (Japan, 2003); and (16) Secretary General, ICID.

## Observers/Permanent Observers

(i) Dr. Tu Phuc Tuong (IRRI); (ii) Dr. Klaus Siegert (FAO); (iii) Mr. Nanda Abeywickrema (IWMI); (iv) Mr. H.W. Denecke (IPTRID); (v) Mr. Geoffrey Spencer (World Bank); (vi) Dr. Theib Oweis (ICARDA); (vii) Dr. David J. Groenfeldt or alternate Mr. Peter P.C. Sun (INPIM); (viii) Dr. W.F. Vlotman (The Netherlands) and (ix) Mekong River Basin Representative.

## E.4. European Regional Working Group (ERWG)

### Mandate

The mission of ERWG is to promote awareness about critical ICID relevant water issues at all levels in Europe and to pay special attention to environmentally sustainable water management in Europe.

### Members

(1) Dr.-Ing. Eiko Luebbe, Chairman (Germany, 2002); (2) Prof. Dr. Peter Kovalenko, Vice Chairman (Ukraine, 1999); (3) Prof. Dr. Brane Maticic (Slovenia); (4) Dr. Laszlo Hyde, Secretary (Hungary, 2005); (5) Dr. Waldemar Mioduszewski (Poland, 1996); (6) Dr. Michele Angelo Cuccaro (Italy, 1996); (7) Prof. Dr. Andre Musy (Switzerland, 1996); (8) Mr. Y. P. Goussenkov (Russia, 1996); (9) Prof. Dr. Ion Nicolaesco (Romania, 1996); (10) Prof. Dr. Robert Brouwer (The Netherlands, 1996); (11) Mr. Pedro Eduardo da Cunha Serra (Portugal, 1996); (12) Mr. Nicos Tsiourtis (Cyprus, 1996); (13) Prof. Dr. Svatopluk Matula (Czech Rep., 1997); (14) Dr. Stefan Rehak (Slovak Rep., 1997); (15) Dr. Antanas Maziliauskas (Lithuania, 1997); (16) Mr. Peter Borrowes (Great Britain, 1998); (17) Dipl.-Ing. Frederick M. Cate (Austria, 1998); (18) Dr. Ricardo Segura (Spain, 1999); (19) Dr. Henry Tardieu (France, 1999); (20) Mr. Jaakko Sierla (Finland, 2001); (21) Dr. Davor Romic (Croatia, 2002); (22) Dr. Zvonimir Vukelic (Macedonia, 2002); (23) Mr. Mati Tonismae (Estonia, 2002); (24) Mrs. Sonia Chehlarova-Simeonova (Bulgaria, 2003); (25) Prof. Dr. A. Poulouvassilis (Greece, 2003); (26) Dr. John Martin (Ireland, 2003); (27) Mr. Peter Pantelic (Serbia-Montenegro, 2003); and (28) Secretary General, ICID.

**Observer :** (i) Mr. Mohammad Binbilidia, IME (France).

**Ex-Officio :** (i) Ing. Frank Sparling, Chairman, ERWG Work Team. on European Water Framework Directive (Germany); (ii) Dr. G.G. Guluyk, Chairman, ERWG Work Team on Drainage (Russia); and (iii) Prof. L. Vermes, European Regional Working Group (Hungary).

## E.5. Special Work Team on Aral Sea Basin (ST-ARAL)

### Mandate

To assist in establishing broad based ICID National Committees in each Aral Basin country; to obtain and

disseminate information on problems of Aral basin to other ICID countries with similar problems; to organize national and international discussions on related scientific and technical issues in the basin; and to cooperate with other international organizations in related activities.

### Members

(1) Prof. V. Dukhovny, Chairman, (Uzbekistan, 1994); (2) Mr. Geoff Pearce, Secretary (UK, 1997); (3) Mr. John Osterberg (USA, 1996); (4) Dr. M.G. Bos (The Netherlands, 1998); (5) Prof. N. Hatcho (Japan, 2002); (6) Eng. M.S. Adamu (Nigeria, 2002); (7) Acad. Boris Kizyaev (Russia, 2002); (8) Mr. Ron W. Coley (Canada, 2003); (9) Mr. M. Falciai (Italy, 2004); (10) Mr. Bernard Vincent (France, 2005); and (11) Secretary General, ICID.

### Permanent Observers

(i) Prof. Daene C. McKinney (IWRA); (ii) Dr. Carlos Garces-Restropo (IPTRID); and (iii) World Bank Representative.

## E.6. Working Group on Young Irrigation Professionals Forum (WG-YFP)

### Mandate

- To provide an international platform for young irrigation and drainage professionals and to encourage and promote amongst the young professionals a high standard of professional development in the subjects of irrigation, drainage and environment
- To facilitate the development, acquisition and wider dissemination of knowledge and information about irrigation, drainage, flood control and environment amongst the young professionals.
- To maintain and enhance links with national and international youth having interests in the related subjects or the activities relevant to ICID objectives.
- To educate young professionals about ICID's role, objectives, activities, structure, Constitution and Bylaws.

### Members

(1) Mr. Ali Reza Salamat, Chairman (Iran, 2000); (2) Mr. Sanjay Belsare Vice Chairman (India, 2003); (3) Ms. Nepveu de Villemarceau au Audrey, Secretary (France, 2002); (4) Dr. Hesham Kandil (Egypt, 1996); (5) Mr. Megat Johari Megat Mohd. Zoor (Malaysia, 1998); (6) Mr. Jong Min Park (Korea, 1998); (7) Ir. Maurits Ertsen (The Netherlands, 2002); (8) Mr. Tero Karkkainen (Finland, 2002); (9) Ms. E.O. Ogunniyi (Nigeria, 2002); (10) Dr. Nariman Shamsutdinov (Russia, 2003); (11) Ms. Jianxin Mu (China, 2003); (12) Mr. Bennie Grové (South Africa, 2003); and (13) Mr. Koji Inosaka (Japan, 2003).

## E.7. Committee on Congresses / Conferences (C-CONGR)

### Mandate

To recommend general improvement in conduct of Congresses/Conferences sessions; to recommend tasks and duties for General Reporters and Panel of Experts for Congress Questions and Special Session; to study and establish, if needed, the basic guidelines for recommending the tasks and responsibilities of National Organizing Committees; to establish appropriate procedures for selection of Congress Questions, Special Sessions and Symposia; to establish procedures for scheduling of most appropriate workshops, seminars, etc. to be held at the time of Congress; to make recommendations on the number and type of simultaneous meetings at Congresses/Conferences in order to improve effectiveness and attendance; to study and accord advice to the National Committees, for methods to be adopted in each case for an effective follow-up of the Conclusions and Recommendations of Congresses/Conferences; and to make recommendations on printing the proceedings for distribution of abstracts in advance.

### Members

(1) Dr. Illahi B. Shaikh, Convenor (Pakistan); (2) Mr. Gao Zhanyi (China); (3) Dr. N.N. Dubenok (Russia); (4) Mr. Mohd. Azhari bin Ghazali (Malaysia); (5) US representative; (6) Iranian representative; (7) Italian

representative; and (8) Dr Vijay K. Labhsetwar, Director, ICID Central Office.

## E.8. Special Work Team on Lake Chad Basin (ST-LCB)

### Initial Terms of References (ToR)

- To assist in the establishment of broad based ICID National Committees in each of the Lake Chad Basin country;
- To obtain and disseminate information on the problems of Lake Chad Basin to other ICID member countries with similar problems;
- To organize national and international discussions on related scientific and technical issues in the basin; and
- To cooperate with other international organizations in related activities.

### Members

(1) Engr. Bukar Wakil, Interim Chairman (Nigeria, 2005); (2) Dr. Sizwe Makhize (South Africa, 2005); (3) Dr. H. Fahmy (Egypt, 2005); (4) Prof. Tom Franks (Great Britain, 2005); (5) Prof. V.A. Dukhovny (Uzbekistan, 2005); and (6) Secretary General, ICID.

**Permanent Observers:** (i) LCBC representative; (ii) IPTRID representative; and (iii) World Bank representative.

## Activities of Work Bodies under PCSPOA

### E. Regional Working Groups and Others

#### E.1. African Regional Working Group (AFRWG) – Estd. 1994

Secretary General M. Gopalakrishnan participated in the 'East African Integrated River Basin Management' (EARBM) Conference held at Morogoro, Tanzania in March 2005. In the conference, deliberations were made on the themes on water for food, people and nature. Secretary General Gopalakrishnan explained the ICID's Basin-wide Holistic Integrated Water Assessment (BHIWA) model, under Country Policy Support Programme (CPSP).

The RAID Network in West Africa in May 2005 had invited all the members of Francophone countries to join the 'e-discussion' on "Large Water Development for Agriculture in Central Africa". A Workshop on "Lake Chad River Basin Management" was held on 11 September 2005 at Beijing. This was attended by more than 25 participants. During the workshop, four presentations viz., (i) Management of Water Resources

of Lake Chad Basin, (ii) Management of Scarce Resources: Wetland Management for livelihood, (iii) Environmental Issues in Lake Chad Basin, and (iv) Water Resources Development and Management Issues within the Kamadugu-Yobe Basin, were made.

#### E.2. American Regional Working Group (AMRWG)- Estd. 2003

The second meeting of American Regional Working Group was held on 11 September 2005 at Beijing during 56<sup>th</sup> IEC meeting. Dr. Dennis Wichelns (USA) and Dr. Jaime Collado (Mexico) became new members of the American Regional Working Group. The AMRWG has still to elect its Chairman, Vice-Chairman and Secretary and get on with the proposed activities. The AMRWG is thus evolving.

#### E.3. Asian Regional Working Group (ASRWG) – Estd. 1996

Based on the decision of the 12th meeting of the ASRWG held at Beijing in China, in September 2005,

the Australian National Committee of ICID (ANCID) would continue to take action on the broad recommendations that were adopted at the 2<sup>nd</sup> Asian Regional Conference. The Work Team organized a workshop in Beijing, China on 14 September 2005 with the objective to synthesize country/institution-wise experiences on understanding and analyzing the multiple roles (both positive and negative) of irrigation water, particularly for paddy fields in Asian region. The feedback so received was again utilized for preparing a paper on "Sustainable Paddy Water Use and its Multi-functionality with Better Governance" for presenting in an exclusive session jointly organized with International Network for Water and Environment in Paddy Fields (INWEPF) during the occasion of the fourth World Water Forum (4 WWF) held on 20 March 2006.

The 3<sup>rd</sup> Asian Regional Conference is scheduled to be held from 13-15 September 2006 at Kuala Lumpur, Malaysia together with the 57 IEC and 7 International Micro-Irrigation Congress. The theme of the 3<sup>rd</sup> ARC is "Transforming irrigated agriculture into an efficient engine of growth" and that for the 7<sup>th</sup> International Micro Irrigation Congress is "Advances in Micro Irrigation for Optimum Crop Production and Resource Conservation". The whole event will be promoted as 'Kuala Lumpur, 2006'. The details of the events with respect to its objectives, program, papers, etc. can be seen from the website [www.icid2006.org](http://www.icid2006.org).

#### **E.4. European Regional Working Group (ERWG)- Estd. 1995**

The WG enjoys membership of 27 European Countries, which makes it one of the strongest work body in the ICID family. The WG includes Work Teams like European Work Team on Drought (EWTDR); European Work Team on Floods (EWTFL); ERWG Work Team on EU Water Framework Directive (EWTWFD); European Work Team on Sustainable Irrigation Management (EWTSIM); and European Work Team on Drainage (EWTDR). Further, ERWG Water Network includes five European professional organizations, seven National Water Management Associations and six European Water Management Institutes.

Prof. Brane Maticic (Slovenia) and Prof. Istvan Ijjas (Hungary) withdrew Vice Chairmanship and Secretaryship, respectively from the European Regional Working Group (ERWG). The ERWG expressed their appreciation and thanks for the hard work that Prof. Istvan Ijjas had put in during the past 10 years of the Working Group. He was active since the inception of the WG and also maintained continuity when chairmanship was changed. Prof. Peter Kovalenko (Ukraine) and Dr. Laszlo Hayde (Hungary) became Vice Chairman and Secretary, respectively for the Working Group during its 11<sup>th</sup> meeting in Beijing. The joint research projects on river basin management supported by ERWG have been continuing during the

past years. Two projects with German participation were "Water Management Tasks in the Summer Polders of the Nemunas Lowland" together with Lithuania and "Flood Modelling in the Upper Dnister Valley" together with Ukraine had been mentioned.

It was agreed to continue the co-operation among ICID-ERWG, Central and Eastern Europe Global Water Partnership (CEE-GWP) and World Wide Fund for Nature (WWF). The Second Phase Report was published and distributed during the interim meeting of ERWG in Frankfurt (Oder) in May 2005.

The EWTDR organized a scientific session during 21<sup>st</sup> ERC. The most relevant and actual questions of drought and drought management were introduced through 12 oral presentations and discussed. Full papers were published on a CD-ROM and distributed with the conference proceedings.

The Session on Flood Management was held during the 21<sup>st</sup> ERC. The issues discussed were national and international action plans, technical flood protection measures, systems to reduce damage potential, flood modelling and cost-benefit analyses. It was felt that preventive flood protection was necessary and needed wide co-operation. During the session, Dr. Dick de Bruin, Chairman, WG-CAFM introduced the Manual on "Planning of Structural Approaches to Flood Management", which was published under ICID publication series.

The EU document "Flood Risk Management, Flood Prevention, Protection and Mitigation" (July 2004) was replaced by a draft paper in June 2005. This document was discussed during the meeting. A workshop on "Flood Management" was organised by Dr. de Bruin, Chairman, WG-CAFM with assistance from Mr. Peter Borrows, Chairman of EWTFL during the Beijing (2005) Congress.

The 2<sup>nd</sup> project workshop on 'Irrigation Management Transfer in European Countries of Transition' was held just before ERC2005 in Slubice (Poland) during 13-15 May 2005, organized by the Polish National Committee of ICID (POCID) under the Chairmanship of President Hon. Prof. dr. Schultz. The workshop results including the ICID Slubice Declaration were discussed in the interim meeting of EWTSIM on 16 May 2005 in Frankfurt (Oder) Chaired by Prof. Kovalenko (Ukraine).

A session on drainage issues dealing with best practices including ecological, economic and technical conditions of drainage scheme was organized by EWTDR during 21<sup>st</sup> ERC.

The 21<sup>st</sup> European Regional Conference on the theme "Integrated Land and Water Resources Management: Towards Sustainable Rural Development" was organized in Frankfurt (Oder) Germany and Slubice, Poland during 15-19 May 2005 by German National Committee, ICID (GECID) and Polish National



*Participants of 21st European Regional Conference*

Committee, ICID (POCID). A total of about 225 participants from 28 countries attended the ERC, of which about 60 were Young Professionals. Among other interim meetings, Prof. Ijjas presented a slide show on “10 years of ERWG” during the ERC. The Frankfurt (Oder) – Slubice Declaration on “Resources Management” was announced. The proceedings of ERC2005, declarations, pictures and other information as outcome of the conference has been posted on the website [http://www.zalf.de/icid/ICID\\_ERC2005.htm](http://www.zalf.de/icid/ICID_ERC2005.htm).

ERWG Letter 15 (2005) was published before 21<sup>st</sup> ERC2005. The publication of the ERWG Letter is being sponsored by the German Federal Ministry of Consumer Protection, Food and Agriculture.

The second announcement of the 22<sup>nd</sup> European Regional Conference to be held at Pavia and Rome, Italy from 3-8 September 2007 was introduced by Dr. Michele Angelo Cuccaro (Italy) during the Beijing meeting.

### **E.5. Special Work Team on Aral Sea Basin (ST.ARAL) – Estd. 1994**

Dr. Carlos Garces-Restrepo from IPTRID reported during the 12<sup>th</sup> meeting held at Beijing, that final report on Aral Sea Basin had been published and willing representatives could get the product from IPTRID Office. The Work Team thanked all the donors for the financial and technical assistance and drew their attention to drainage problem and requested IPTRID to support the development of the activity and projects, mentioned in the report. Prof. Dukhovny Chairman, ST-ARAL agreed to IPTRID version of the report and stressed the need for translating the English version into Russian for the use of more stakeholders of Central Asia along with the addition of local stakeholders' presentations as well as two principal projects, proposed by the Local Authority.

During the meeting at Beijing, the ASB experts reported that National Governments contributed many forces in the improvement of social situation in the region. Specific attention is being paid to zones of environmental disasters in the Aral Sea coast. However, the members of ST-ARAL do not have a common assessment of social and ecological situation in the region and stressed on the need for such an assessment. A proposal was made on Aral Sea Basins, which could be one of the CPSP Program that ICID can propose so as to enable

an in depth assessment of the social and economical situations prevailing in the region by adding modules, as required.

Issues on “Scientific and technical framework of transfer of Siberian water to Central Asia” were also discussed in the Beijing meeting based on the report prepared the Work Team member, Academician B. Kizyaev and its presentation by Dr. I. Bondarik. Principal opinion emerged was that water situation in the Central Asia would require, in any case, additional water delivery to the region, as in the southern part of Ural and Siberia, where water deficiency is very sensitive even now. When climate change in Siberian rivers creates sharp increase of floods in the deltas of these rivers, the growing threat to existing old infrastructures gets enhanced; these unusual events of floods may cause their collapse. There is a need for additional huge investments for protection of this area of oil fields, one of the principal oil sources in Russia.

Prof. Dukhovny, Chairman, ST-ARAL mentioned that the region should concentrate its attention in the next 20-25 years on the efficient use of its own water and increase its productivity. The work on design and project on transfer of water has sound viability. Besides tackling the problems of Siberia from excess water, it helps to alleviate problems of Aral Sea Basin from water scarcity by mid 21<sup>st</sup> century. But real needs of the Central Asia would again depend on many factors, such as characteristic of the region in terms of self-sufficiency in food and development of irrigation, global prices on agricultural production, political and social situations in the region as well as in the neighboring states.

### **E.6. Working Group on Young Irrigation Professionals Forum (WG-YPF) – Estd. 1993**

One of the outstanding activities carried out by the Working Group on Young Professionals Forum (WG-YPF) in 2005 was the organization of the International Workshop on “Use of Water and Land for Food and Environmental Sustainability, the Role of Young Professionals”. This event was held in Beijing, China on the 12<sup>th</sup> of September 2005.

The proceedings of this workshop have been published by Iranian National Committee on Irrigation and Drainage and the electronic version of the same has been uploaded on the YPF website ([www.wg-y pf.icidonline.org](http://www.wg-y pf.icidonline.org)).

One of the other activities carried out by the young professional forum during the period was the updating of its website. Information, such as activities and achievements of the Working Group, Newsletters compiled by the members of the WG, Link to YPF Group; Workshops & Seminars conducted by YPF etc has been updated and uploaded on the website for stakeholders' consumptions. The Youth Forum has shown its willingness to extend its activities further for

spreading the mission of ICID through out the world strengthlier by acquiring young professionals' membership in each working group of ICID.

### E.7. Committee on Congresses/Conferences (C-CONGR) – Estd. 1990

For the 20<sup>th</sup> Congress that is to be held at Lahore (Pakistan) in 2008, Dr. Illahi B. Shaikh, Chairman, Pakistan National Committee of ICID (PANCID) was made as the new Convenor of the C-CONGR.

The 19<sup>th</sup> International Congress on Irrigation and Drainage based on the theme, 'Use of Water and Land for Food Security and Environmental Sustainability' was organized at Beijing, China during September 2005. Beijing International Convention Center was the venue of the Congress and Pre-Council meetings of ICID. H.E. Zhai Haohui, Vice Minister of Water Resources and Executive Chairman and National Organizing Committee (China) delivered the presiding speech and inaugurated the Congress on 15 September 2005 in the gracious presence of H.E. Mr. Hui Liangyu, Vice Premier of the State Council and Honorary Chairman of National Organizing Committee, H.E. Mr. Wang Shucheng, Minister of Water Resources, P.R. of China, Ir. Keizrul bin Abdullah, President of ICID and Mr. M. Gopalakrishnan, Secretary General of ICID.

H.E. Mr. Wang Shucheng, Minister of Water Resources, P.R. of China delivered the welcome address, H.E. Mr. Hui Liangyu, Vice Premier of the State Council and Honorary Chairman of National Organizing Committee made the opening remarks, while President Ir. Keizrul bin Abdullah delivered the Keynote Address on main theme 'Use of Water and Land for Food Security and Environmental Sustainability'. The N.D. Gulhati Memorial Lecture for International Cooperation in Irrigation and Drainage on 'A Process-Based Approach to Improving the Performance of Irrigated Agriculture' was delivered by Dr. Albert J. Clemmens, Agricultural Research Service – U.S. Water Conservation Laboratory (USDA-ARS), USA. During the closing ceremony, President-elect, Peter Lee, addressed the delegates briefly, while H.E.

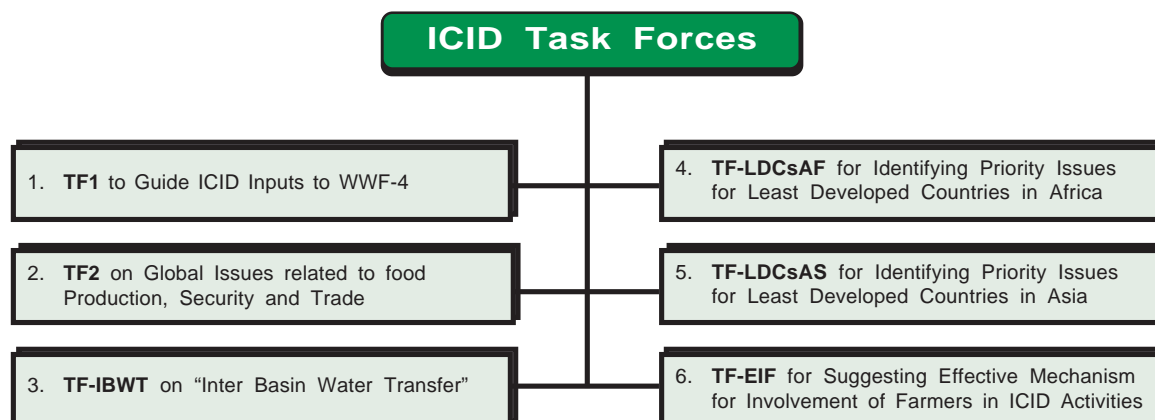
Zhai Haohui, Vice Minister of Water Resources and Executive Chairman and National Organizing Committee delivered the closing ceremony speech. Two questions, core to the themes of the Congress were discussed (Question 52: Water and Land Management for Increasing Efficiency in Agriculture; Irrigated Question 53: Harmonious Coexistence with Flood Waters). The Beijing Declaration was presented in the closing ceremony by Secretary General M. Gopalakrishnan.

Engr. Mohd. Azhari bin Ghazalli, Secretary, Malaysian National Committee of ICID (MANCID) apprised the members of their planning for organization of 57<sup>th</sup> IEC meeting to be held in Kuala Lumpur, Malaysia during 10-15 September 2006. The webpage: <http://www.c-congr.icidonline.org> for C-CONGR has been updated for the 57<sup>th</sup> IEC meeting at Kuala Lumpur. The MANCID website: <http://www.icid2006.org> may be accessed for seeing further details.

### E.8. Special Work Team on Lake Chad Basin (ST-LCB)

A Special Session on "Lack Chad River Basin Management" was held on 11 September 2005 at Beijing, which was attended by more than 25 participants. During the workshop, four presentations viz., (i) Management Water Resources of Lake Chad Basin, (ii) Management of Scarce Resources: Wetland Management for livelihood, (iii) Environmental Issues in Lake Chad Basin, and (iv) Water Resources Development and Management Issues within the Kamadugu-Yobe Basin, were made.

The session expressed its full support for the formation of the Special Work Team on Lake Chad (SWTLC) by ICID and expressed the need for coordinating its activities with Special Work Team on Aral Seas (ST-ARAL), Task Force on "Inter Basin Water Transfers (TF-IBWT)", Working Group on Integrated Land and Water Resources Management (WG-ILWRM); and Working Group on Irrigated Agriculture under Drought and Water Scarcity (WG-IADWS). The session called for special effort to get member States of LCBC to join ICID.



## F. TASK FORCES

### F.1. TF1 To Guide ICID Inputs to 4 World Water Forum (WWF-4)

#### Terms of Reference (ToR)

- To provide overarching lead role on behalf of ICID for inputs to 4<sup>th</sup> WWF.
- To provide guidelines to National Committees and Work bodies for inputs to the themes and sub-themes of the 4<sup>th</sup> WWF, of direct relevance to ICID.
- To coordinate work of other Task Forces, if any, on specific subjects related with 4<sup>th</sup> WWF.
- To prepare ICID inputs for 4<sup>th</sup> WWF.
- To liaise with Mexican National Committee (MXCID) for preparatory work of 4<sup>th</sup> WWF.
- To liaise with 4<sup>th</sup> WWF Program Committee and other International Bodies.

#### Members

(1) Mr. Aly M. Shady, President Hon. ICID (Canada), Chairman; (2) Dato' Ir. Hj. Keizrul bin Abdullah, President Hon., ICID (Malaysia); (3) Mr. Shahrizaila bin Abdullah, President Hon. ICID (Malaysia); (4) Prof. dr. Bart Schultz, President Hon. ICID (The Netherlands); (5) Prof. C. Fasso, Ex-Chair, PCTA and Vice President Hon. ICID (Italy); (6) Prof. Dr. Riota Nakamura, Vice President Hon. ICID (Japan); (7) Dr. Henri Tardieu (France); (8) Representative of Brazilian National Committee; (9) Representative of Mexican National Committee; and (10) Er. M. Gopalakrishnan, Secretary General, ICID, Member Secretary.

### F.2. TF2 on Global Issues Related to Food Production, Security and Trade

#### Terms of Reference (ToR)

The objective of the Task Force is to compile relevant information on the following sub-topics :

Food production, sufficiency and security; Increasing water and land productivity; Importance of scarce water resources; Success stories about food security; Role of R&D in increasing productivity per unit of land and water; Influence of WTO, international trade, trade liberalization on food security; Nutrition and health aspects; and Genetically modified seeds and biotechnology

#### Members

(1) Prof. C. Fasso, Chairman (Italy); (2) Dr. Dia El-Din Ahmed El-Quosy (Egypt); (3) Dr. T. Rieu (France); (4) Dr. Ricardo A.L. Brito (Brazil); (5) Dr. (Mrs.) Kamla Krishnaswami (India); (6) Dr. Mark Rosegrant (USA); (7) Mr. Yasunobu Matoba (Japan); (8) Mr. Chris Perry (UK); (9) Dr. C.D. Thatte (India); (10) Er. M. Gopalakrishnan, Secretary General, ICID; (11) Dr. Vijay

K. Labhsetwar, ICID Central Office (Coordinator).

### F.3. TF-IBWT on Inter Basin Water Transfers

#### Terms of Reference

- To collect the relevant information on existing and projected interbasin water transfers for irrigation, drainage and flood management;
- To analyze the crucial issues of such transfers and recommend good practices to deal with such issues;
- To compile the collected information and circulate to National Committees for comments; and
- To publish the material as ICID reference document.

#### Members

(i) Prof. dr. ir. Bart Schultz, President Hon. ICID and Chairman (The Netherlands); (ii) Dr. José A. Ortiz Fdz.- Urrutia (Spain); (iii) Mr. Maurice Roos (USA); (iv) Prof. dr. Takeshi Hata (Japan); (v) Prof. Zhu Ruixiang (China); (vi) Dr. Frank Quinn (Canada); (vii) Mr. Syed Jamait Ali Shah (Pakistan); (viii) Mr. M. Gopalakrishnan, Secretary General, ICID; (ix) Mrs. Jancy Vijayan, ICID Central Office (Coordinator).

#### Permanent Observer

(i) Mr. Charles Abernethy (Great Britain); (ii) Dr. K. Palanisami (India); (iii) Mr. Boubakari Mana (Lake Chad Basin Commission).

### F.4. TF-LDCsAF for Identifying Priority Issues for Least Developed Countries in Africa

#### Terms of Reference

The Task Force will create a Knowledge Base to understand the problems faced by Least Developed Countries in Africa, work out requirements of the LDCs, identify level and extent of support from ICID and explore the avenues for bilateral/multilateral cooperation.

#### Members

(1) Engr. I.K. Musa (Nigeria), Chairman; (2) Mr. W.P. Field (UK); (3) Mr. Mbogo Futakamba (Tanzania); (4) Dr. Hussam Fahmy (Egypt); (5) Dr. Sizwe Mkhize (South Africa); (6) Mr. Moise Sonou (ARID).

### F.5. TF-LDCsAS For Identifying Priority Issues for Least Developed Countries in Asia

#### Terms of Reference (ToR)

The Task Force will create a Knowledge Base to understand the problems faced by Least Developed Countries in Asia, work out requirements of the LDCs, identify level and extent of support from ICID and explore the avenues for bilateral/multilateral cooperation.

## Members

(1) Dr. Shigetaka. Taniyama, Chairman (Japan); (2) Dr. Kwun, Soon-Kuk (South Korea); (3) Dr. Hector M. Malano (Australia); (4) Dr. Saeed Nairizi (Iran); and (5) Prof. Cai Ling (China).

### F.6. TF-EIF for Suggesting Effective Mechanism for Involvement of Farmers in ICID Activities

#### Terms of Reference (ToR)

- (1) To consider representation of farmers/farmers' associations in ICID Work bodies and National Committees.
- (2) To consider promotion of signing of Memorandum of Understanding between ICID and international farming organizations, regional farmers organization, national farming organizations and concerned ICID regional groups.
- (3) To identify and study issues from a farmer's perspective, which are not covered presently under ICID work body mandates.

- (4) Collate and share farmers' practical experiences on best practices in irrigation and drainage and marketing their produce.
- (5) To develop mechanisms for farmers' association and involvement with ICID activities, including in annual IEC's for local farmers.
- (6) To study the implication of pricing of water farm subsidies, WTO and other institutional issues that have the potential impact on irrigation farmers.

#### Members

(1) Mr. Stephen Mills, Chairman (Australia); (2) Mr. Jean Marcel Laferrière (Canada); (3) Mr. Takeshi Hata (Japan); (4) Dr. José A. Ortiz Fdz.-Urrutia (Spain); (5) Ms. Veronique Bassetra (France); (6) Mr. Xavier Goossens (France); (7) Mr. Tony Horton (Australia); (8) Mr. Volker Aeuckens (Australia); (9) Dr. Hussein El Atfy (Egypt); (10) Mr. Jorge Martinez (Mexico); (11) Prof. N. Hatcho (Japan); (12) Mr. Laurie Tollefson (Canada); and (13) Mr. Clarke Ballard (Australia).

## Activities of ICID Task Forces

### F.1. Task Force 1 "To Guide ICID Inputs to 4 World Water Forum"

The Task Force 1 is constituted to Guide ICID inputs to 4 World Water Forum. The TF coordinated activities of ICID National Committees and Work Bodies to develop the ICID participation in 4 WWF to its theme on "Cross-cutting Perspective". Accordingly, ASRWG, WG-CAFM, WG-CBTE and National Committees (JNC-ICID, UzNCID, SANCID and MXCID) contributed actively to 4 WWF held at Mexico City from 16-22 March 2006. Since all the work of the TF has been accomplished successfully, The TF awaits for its closure in the 57<sup>th</sup> IEC meeting of ICID at Kuala Lumpur.

### F.2. Task Force 2 "Global Issues related to Food Production, Security and Trade"

During the reporting period the TF 2 constituted its activity regarding addressing global issues related to food production, security and trade. The TF 2 in its first meeting held on 16 September 2001 discussed about the scope of its ToR. In its 2<sup>nd</sup> meeting at Montreal, one document paper was produced basically on nutrition and health aspects related with crop/non-crop, foods, relationship with poverty, calorie intake and balanced nutritious diet for productive and full natural life span for people of different regions and country written by the TF members, namely, Dr. Kamla Krishnaswamy in collaboration with Mallikharjuna Rao, K., and Vijayaraghavan K. The Central Office thereafter,

prepared a document titled "First Preliminary Draft Approach Paper" and circulated amongst the TF members for comments and suggestions. This document was considered by the TF as a good base for more elaboration and once again circulated amongst the members of TF 2. Several members including the President of ICID made comments, which incorporated in the revised report and placed on the ICID website. The TF2 report, after undergoing improvements presented in the 4<sup>th</sup> meeting of TF2 at Moscow, Russia by the Secretary General. Very useful interactions took place and more suggestions made during the meeting for its further updating. The Secretary General, ICID again presented the modified and updated report of TF 2 during in its 5<sup>th</sup> meeting at Beijing, China and was found to be in order and agreed for approval. As the TF 2 accomplished its mandated task, the 56<sup>th</sup> IEC decided to wind up the activities of TF 2. The final report of TF 2 can be viewed from the ICID website ([www.icid.org](http://www.icid.org)).

### F.3. Task Force on Inter Basin Water Transfers (TF-IBWT)

The main objective of the Task Force on Inter Basin Water Transfers (TF-IBWT) is to collect relevant information on existing and proposed Inter Basin Water Transfers proposals for irrigation, drainage and flood management and analyze the crucial issues of such transfers and thereby recommend good practices to deal with such issues and then publish the document as an ICID publication.

The TF-IBWT for fulfilling its mandated task circulated the information regarding IBWT data compiled by the Central Office of ICID amongst the National Committees for their comments and providing additional data/information. Now the TF is in the process of updating the compiled draft report based on the additional data received from the National Committees and in-house search for data on IBWT and present the same as a draft report on the forthcoming 3<sup>rd</sup> meeting of the Task Force at Kuala Lumpur.

#### F.4. TF-LDCsAF for Identifying Priority issues for Least Developed Countries in Africa

The TF-LDCsAF was re-constituted at the 56<sup>th</sup> IEC meeting and the ToR revised accordingly. The TF-LDCsAF plans to prepare a suitable questionnaire in cooperation with TF-LDCsAS and circulate amongst the concerned countries. In the Beijing meeting, it was reported that the analysis of the response would be presented during the Kuala Lumpur meeting. The TF proposes to submit its final report at the 58<sup>th</sup> IEC in Sacramento, USA in 2007.

#### F.5. TF-LDCsAS for Identifying Priority issues for Least Developed Countries in Asia

The TF-LDCsAS carried out a questionnaire survey in 2004 to 2005 on the state of irrigation in LDCsAS. The questionnaires returns came from four countries – Afghanistan, Bangladesh, Cambodia and Lao PDR. Afghanistan stressed the need for improved infrastructure and construction of storage dams. Bangladesh was concerned about flood, scarcity of water and environmental problems. Cambodia needed improvement and development of infrastructure. One common feature of irrigation infrastructure in LDCsAS was the dominance of small or minor schemes. The TF-LDCsAS plans to hold a Special Session for “Least Developed Countries in Asia: Development with Partnership – Avenues for Cooperation”, during the 3<sup>rd</sup> meeting in Kuala Lumpur, Malaysia on 10 September 2006 on the following main theme with exemplary areas is given under:

#### Main Theme:

- Planning, implementation, and management of small or tertiary distribution schemes in LDCs and other countries in Asia,

#### Exemplary areas :

- Capacity building for planning, designing, construction, and management of irrigation and drainage schemes;
- Practical research and development on planning, designing, construction, and management of irrigation and drainage schemes;
- Case studies of best administrative/ management practices, e.g., practical ways for cost sharing of infrastructure improvement and/or development; or mechanisms for efficiency and equity in water distribution, including those of traditional schemes;
- Comparative studies on the effectiveness of management/regulatory framework for sustainable management of water resources, including groundwater;
- Roles of governments and institutional arrangements for participatory irrigation and drainage development and management;
- Empowerment of women in decision-making for planning, implementation, and management of irrigation schemes.

#### F.6. TF-EIF for “Suggesting Effective Mechanism for Involvement of Farmers in ICID Activities”

In the 3<sup>rd</sup> meeting of the TF held in Beijing on 11 September 2005, the TF resolved to ensure that farmers will have a session to showcase their activities at each of the IECs and Congresses as was done at the time of 18<sup>th</sup> Congress in Montreal, Canada. The TF will also write to the farmers’ groups and invite them to comment on the issues identified by TF and how ICID could promote them together with the National Committees. The TF brought out action points as future activities so as to ensure that the interests of farmer groups and farmer representatives in ICID meetings were promoted adequately.



*H.E. Dr. Abu Zeid, Hon'ble Egyptian Minister and Vice Pres. Hon. ICID, Dr. John Pigram, Past President, IWRA and President Lee in WWF4 Session*



*President Lee and President Hon. Aly Shady in WWF4 Session*

## Active Members\*

- |                             |                        |                     |
|-----------------------------|------------------------|---------------------|
| 1. Australia                | 22. India              | 43. Philippines     |
| 2. Austria                  | 23. Indonesia          | 44. Poland          |
| 3. Bangladesh               | 24. Iran               | 45. Portugal        |
| 4. Brazil                   | 25. Ireland            | 46. Romania         |
| 5. Canada                   | 26. Israel             | 47. Russia          |
| 6. Chile                    | 27. Italy              | 48. Saudi Arabia    |
| 7. China                    | 28. Japan              | 49. Slovak Republic |
| 8. Chinese Taipei Committee | 29. Korea, Republic of | 50. Slovenia        |
| 9. Croatia                  | 30. Kyrgyz Republic    | 51. South Africa    |
| 10. Cyprus                  | 31. Lithuania          | 52. Spain           |
| 11. Czech Republic          | 32. Macedonia          | 53. Sri Lanka       |
| 12. Egypt                   | 33. Malaysia           | 54. Switzerland     |
| 13. Estonia                 | 34. Mali               | 55. Syria           |
| 14. Ethiopia                | 35. Mexico             | 56. Tanzania        |
| 15. Finland                 | 36. Morocco            | 57. Thailand        |
| 16. France                  | 37. Mozambique         | 58. Turkey          |
| 17. Germany                 | 38. Myanmar            | 59. Ukraine         |
| 18. Great Britain           | 39. Nepal              | 60. USA             |
| 19. Greece                  | 40. Netherlands        | 61. Uzbekistan      |
| 20. Guyana                  | 41. Nigeria            | 62. Yugoslavia      |
| 21. Hungary                 | 42. Pakistan           | 63. Zambia          |

## Members 'Deemed to be Inactive'

- |                        |                |
|------------------------|----------------|
| 64. Algeria            | 78. Lebanon    |
| 65. Angola             | 79. Libya      |
| 66. Argentina          | 80. Madagascar |
| 67. Belgium            | 81. Malawi     |
| 68. Bulgaria           | 82. Panama     |
| 69. Colombia           | 83. Peru       |
| 70. Dominican Republic | 84. Senegal    |
| 71. Ecuador            | 85. Sudan      |
| 72. Ghana              | 86. Surinam    |
| 73. Honduras           | 87. Tajikistan |
| 74. Iraq               | 88. Tunisia    |
| 75. Ivory Coast        | 89. Uganda     |
| 76. Jordan             | 90. Venezuela  |
| 77. Kenya              | 91. Vietnam    |
|                        | 92. Zimbabwe   |

## Members 'Withdrawn in the past on their Own'

- 93. Cuba
- 94. Denmark
- 95. New Zealand

## Members 'Admitted but yet to pay their Subscription'

- 96. Azerbaijan
- 97. Burkina Faso
- 98. Chad
- 99. Kazakhstan
- 100. Mauritius
- 101. Mongolia
- 102. Niger
- 103. Sao Tome & Principe
- 104. Turkmenistan
- 105. Yemen

\* As on 31<sup>st</sup> March 2006

## Australia (ANCID)

During the reporting period 1 April 2005 to 31 March 2006, 11 nominated members of Australian National Committee of ICID (ANCID) had involved actively in 19 work bodies of ICID. In the meeting of the Working Group on On-Farm Irrigation Systems (WG-ON-FARM) at Beijing in September 2005, ANCID organized a Special Session on "Latest trends in On-Farm Irrigation Technology" in collaboration with the Australian Government's Department of Agriculture, Fisheries and Forestry (DAFF) for showing video-clippings of the innovative technologies to the participants.

The Australian National Committee is also taking follow-up actions on the broad recommendations that were adopted at the 2<sup>nd</sup> Asian Regional Conference held at Echuca/Moama, Australia in March 2004. In respect of OECD Workshop held on 14-18 November 2005 in Adelaide, the Australian National Committee of ICID highlighted its unique efforts relating to water management in agriculture in an exclusive 'breakfast session' and demonstrated on recent innovations on 12 of its case studies.

## Canada (CANCID)

Canadian National Committee of ICID (CANCID) nominated 7 of its members for memberships of 7 work bodies of ICID including in Special Team on Aral Sea Basin and Editorial Board of ICID Journal.

The Eastern Canada Soil and Water Conservation Centre (ECSWCC) led a multi-province (NB-NS-PE-NL) Atlantic tour of Irrigation and Water Management for Fred Kraft and Laurie C. Tollefson of the Canadian Committee. During the pan Atlantic tour, the CANCID members met with professionals in Presque'Isle Maine, who were very interested in international collaboration on water management, as it pertaining to the St John River international watershed.

The New Brunswick CWRA Branch hosted two invited guest speakers on 21 September 2005 in Fredericton at the Agriculture and Agri-Food Canada (AAFC) Potato Research Centre. Laurie C. Tollefson, Manager of the AAFC Irrigation Centre in Outlook SK, also 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 in irrigation in western Canada and spoke briefly about links between CANCID, CWRA and irrigation.

A number of guests from the New Brunswick Soil and Crop Improvement Association, the Agricultural

Producers Association of New Brunswick and other groups attended the session.

Brook Harker, a senior Soil and Water Resource Specialist with AAFC in Regina, made a presentation about the new AAFC Watershed Evaluation of BMPs (WEBs) projects 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, was also contributed for funding. Studies would be conducted over the next 4 yrs (2004-2008), on seven sub-watershed sites across Canada. One of the sites to be studied on priority basis is the Black Brook sub-watershed near Grand Falls in northwestern New Brunswick.

## China (CNCID)

Chinese National Committee of ICID (CNCID) nominated 13 members to take part in 22 work body activities of ICID. Their involvement also included in PFC, PCSPOA, AC-IPTRID and C-CONGR of ICID. Mr. Gao Zhanyi, member of CNCID has been elected in September 2005, as one of the 9 Vice Presidents of ICID for the period 2005-2008.

The CNCID organized the 56<sup>th</sup> IEC meeting and 19<sup>th</sup> ICID Congress in Beijing, China from 10-18 September 2005. The CNCID had drawn up an excellent program for the Congress participants. The final bulletin of the 56<sup>th</sup> IEC meeting and the 19<sup>th</sup> ICID Congress had been prepared by the CNCID showing the complete information on schedules of main events, day-to-day schedule of various work bodies, workshops, seminars, the names of keynote speakers, details of exhibition, list of hotels along with maps and study tour programs, posted on the website: [www.icid2005.org](http://www.icid2005.org) for stakeholders information and actions. Arrangements were made to hold the 56<sup>th</sup> IEC and 19<sup>th</sup> Congress events in the huge and magnificent venue at "Beijing International Congress Center". The Organizing Committee of the event was in full gear to welcome the delegates at Beijing and make their stay memorable one. In each and every step, the CNCID was ensuring that everyone has an enjoyable, pleasant and informative participation in the Congress, IEC events and in the study tour packages. During the occasion, the CNCID arranged 7 exciting tour packages to suit all delegate's interests and requirements. The tour program included visits to famous irrigation and flood control projects together with places of historical interest, scenic areas and nature reserves.

More than 500 delegates from over 56 countries and

several international organizations around the world covered at Beijing to participate in the Congress as well as in the IEC event. The CNCID deserves congratulations on this account and making the event into a highly successful one.

The CNCID actively participated and interacted with the CO of ICID for the accomplishments of the works under CPSP of ICID. Prof. Li Daixin - the recipient of the "Innovative Water Management Award" of ICID in the 2005, is presently Director General, Dept. of Irrigation, Drainage and Rural water Supply, Ministry of Water Resources, and Chairman of CNCID had played a key role in organizing the "Rehabilitation and Modernization of large-scale Water Saving Irrigation Programs in various districts of China. CNCID also introduced a Special Session on Introduction of Water Issues and Key Projects in China during the 56<sup>th</sup> IEC Meeting of ICID. The CNCID had completed the translation work of ICID Multilingual Technical Dictionary (MTD) into Chinese language.

### Egypt (ENCID)

Egypt is considered one of those countries, which are very vulnerable with regard to water resources. So, the Egyptian Government has adopted an integrated policy document in which all Water Demand objectives are taken into account, covering the period till 2017. The National Water Resources Plan is based on three main pillars. The first is to develop new water resources to increase the water availability for different users. The second is "Making Better Use" of available water resources. The last pillar is "protecting health and environment" that aims at sustainable development, and guarantees equal opportunities for the next generations to have at least the same livelihood standards. Egyptian National Committee of ICID (ENCID) nominated 7 members from their National Committee to actively involve in 17 work bodies of ICID, which included their participation in AC-IPTRID, EB-JOUR, PCSPOA, PCTA, C-PR&P, AFRWG and ST-LCB.

ENCID had been rewarded for the Best Performance of ICID National Committee Award. The award was given to appreciate the distinguished performance of the ENCID for its outstanding contribution towards the mandate and mission of ICID and for its impressive achievements during the last three years (2002-2005). ENCID during the periods of 1 April 2005 to 31 March 2006, arranged lectures to the ENCID members on the topics, such as climatic changes and their effects on land and water, intermediate reuse of drainage water, desalinization of sea water, remote sensing application in irrigation and drainage and irrigation improvement project in Western Delta of Egypt.

During February 2006, the ENCID members visited Toshka Project in the South Valley of Egypt as a part of the ENCID program of visiting the national mega projects in Egypt. The members visited the main

pump station at Mubarak, new cultivated area including the current construction of siphon on the main canal of the project and Aswan High dam. For increasing the awareness about the role of ICID and ENCID in Egypt, the ENCID conducted the monthly meeting of March 2006 at the College of Engineering of Zagazig University, which is located in the Eastern Delta of Egypt. The program that was organized with the cooperation of the universities in Egypt, included a lecture to the students of Hydraulic and Engineering Department about the role of ICID and its relation to ENCID, in addition of the regular meeting agenda of the meeting.

During the World Water Forum in Mexico in March 2006, ENCID participated in a number of activities and organized topic sessions as detailed :

- ENCID together with Working Group on Drainage (WG-DRG) organized an exclusive session on "Drain for Gain – Agricultural Drainage for Sustainable Development".
- Under the umbrella of Arabic Water Council, the ENCID contributed in the following activities:
- Preparation and presentation of a multi-media show about the water status (challenges and opportunities) in Arab Region and on the potential local actions for facing the Regional challenges.
- Presentation of a Regional Document with respect to Middle East and North Africa Regions.
- Contribution to the Ministerial Declaration.
- Organizing of twelve (12) technical sessions under the main five themes of the Forum during the five days. In addition, contributing in more than 10 technical sessions outside the scope of Arabic Region.
- The dialogue between Arabic youth, experts, and decision makers in water sector in Arabic Region.
- Children's cultural and artistic show.
- Publishing of 14 newsletters during the forum and carrying out meeting with representatives of Arabic, Mexico and international newspapers.
- Media exhibition for Arabic Water Council and on water issues in Arabic Region.

Other noteworthy activity carried out by ENCID is that the National Water Research Center (NWRC) has engaged a highly skilled research team to work in line with the new mandate of the International Program for Technology and Research in Irrigation and Drainage (IPTRID), which focuses on the research uptake, knowledge exchange, management innovations and capacity development.

Accordingly, a project is being implemented by the NWRC titled "Egypt's Experience in Irrigation and Drainage Research Uptake" and funded by the IPTRID that aims at identifying the significant research

programs and projects, carried out by the NWRC, during the last three decades in support of the development and management of Egypt's water resources system.

The project objectives are :

- Comprehensive documentation of Egyptian experience in irrigation and drainage research uptake.
- Analysis and evaluation of such experience to frame successful mechanism and procedure for closing the gap between research and practice.
- Provision of specific recommendation for taking corrective measures to enhance and encourage the uptake of research results and findings to irrigation and drainage practice.
- Dissemination of the study outcome to a number of selected development countries and promote effective mechanism that facilitate the research uptake process.

The project is planned for a duration of six months and be ended by November 2006.

ENCID along with the coordination support of ICID Central Office also executed the CPSP of ICID.

### **Finland (FINCID)**

The Finland National Committee of ICID (FINCID) nominated four members of its National Committee to involve in four workbodies of ICID, namely, in WG-YPF, WG-DRG, WG-ENV and ERWG. During the meeting of the Working Group on Drainage (WG-DRG) held at Beijing, China, the FINCID made a proposal to host the 10<sup>th</sup> International Drainage Workshop in Helsinki in 2008. The proposal was agreed and accordingly, the FINCID will organize the workshop alongwith Estonia.

### **Germany (GECID)**

Six members of the German National Committee of ICID (GECID) were involved in 7 work bodies, including ERWG and EB-JOUR of ICID during the period. The 21 European Regional Conference of ICID was held from 15-19 May 2005 at Germany. The event was organized by the GECID in cooperation with Polish National Committee of ICID (POCID). The conference was attended by about 225 experts from 20 European and 8 non-European countries.

A CD-ROM version of Irrigation Sector Reforms in Eastern Countries was released in 2005 by the German National Committee of ICID (GECID).

### **Great Britain (ICID.UK)**

British National Committee is involved in 24 work bodies of ICID including in ERWG, AFRWG, ST-LCB, PFC, EB-JOUR, AC- IPTRID and ST-ARAL. Mr. Peter S.

Lee of ICID.UK presently acting as Director of Mott MacDonald has been elected in September 2005, as President of ICID for the period 2005-2008. Besides, 13 members of ICID.UK participated in various work bodies.

The ICID.UK organized a half day meeting on 12 October 2005 at the Institution of Civil Engineers, London with about 50 participants based on the theme "Managing Water Resources: Flexibility/Inertia". During the meeting, various aspects and issues of water resources development and planning followed by management and monitoring were discussed and focused especially on the topics: (i) Big and small: experiences of water management constraints; (ii) Resourced-centered thinking in river basins: should we revoke the crop water approach to irrigation planning? (iii) On a tale of two rivers; and (iv) Catchment water deficits in the 21<sup>st</sup> century.

On 8 February 2006, another half-day technical meeting was also organized at the Institution of Civil Engineers, based on the theme "Sustainable Development in Tidal Areas". The 8<sup>th</sup> ICID Research Day was also organized at the Centre for Ecology and Hydrology, Crowmarsh Gifford, Wallingford on 29 March 2006, focusing on the theme 'Climate Change'.

ICID.UK arranged 2005 year's field drip to Humber Estuary on 11-12 November 2005. During the occasion, three invited speakers spoke about Humber Flood Risk Management Studies, issues in land drainage around the Humber and management of the RSPB Reserves of the Humber Estuary. There was a site visit also to a flood defense realignment site at Paull Holme Strays.

ICID.UK actively participated and was well represented in the 19<sup>th</sup> ICID Congress held at Beijing, China in September 2005.

### **Hungary (HUCID)**

Hungarian National Committee of ICID (HUCID) nominated 6 members from their Committees and the nominated members involved in 11 work body activities including in PFC, ERWG, AC-IPTRID and EB-JOUR.

The HUCID organized a 50 year Jubilee Conference to mark the establishment of the HUCID. The gala function was held at the Hungarian Academy of Sciences in Budapest on 12 October 2005. Dr. Alan Vidal, Vice President of ICID was the Guest Speaker. ICID fraternity sent their best wishes to all past and present HUCID Office Bearers and members, who contributed in making what the HUCID is, today. A CD-ROM Version of 50 Years ICID in Hungary – Memorial Session at the Hungarian Academy of Sciences, 12 October 2005, was also released by the Hungarian National Committee of ICID (HUCID) in remembrance of the 50 year Jubilee celebrations.

## India (INCID)

Indian National Committee of ICID (INCID) nominated 13 members for involving in 24 work bodies (including C-PR&P, AC-IPTRID, PCSPOA, PCTA, C-CONGR, EB-JOUR and ASRWG) of ICID during the period.

The 24<sup>th</sup> meeting of INCID Committee was held on 12<sup>th</sup> December, 2005 at New Delhi under the chairmanship of Shri R. Jeyaseelan, Chairman, INCID & Central Water Commission. During the meeting, along with the routine matters, hosting of 5<sup>th</sup> Asian Regional Conference in 2009 by INCID; bilateral exchanges of experts between INCID and Egyptian National Committee on Irrigation and Drainage (ENCID) and Chinese National Committee on Irrigation and Drainage (CNCID); INCID's views on cross-cutting perspectives and framework themes for 4 World Water Forum; and Progress of Phase-I in India on the Country Policy Support Programme (CPSP) of ICID were reviewed and discussed.

INCID's activities in the field of irrigation and drainage, especially with respect to Research and Development (R&D) got a boost due to the continued coordination of its Sub-Committees with various organization and Research Institutes including WALMIs. INCID organized a R&D Session at Bhubaneswar in February 2006 and was attended by more than 70 Technical Personnel. At the Session, 19 ongoing research schemes were presented and discussed.

In the international arena, INCID contributed largely by actively participating and presenting papers in various seminars and workshops. Shri R. Jeyaseelan, Chairman, INCID & CWC and Vice-President, ICID; Shri B.S. Ahuja, Member (WP&P), CWC; Shri B.D. Pateria, Chief Engineer, CWC; Dr K. Palanisami, Director WTC, TNAU, Coimbatore; and Dr A.K. Randev, Associate Professor, RHRS, Shimla, participated in the ICID events, which were held at Beijing, China on 10-18 September 2005. Shri R. Jeyaseelan, Chairman, INCID & CWC and Vice-President, ICID; and Smt. Sushma Singh, Additional Secretary (WR), participated in the ICID Sessions at 4<sup>th</sup> World Water Forum held in March, 2006 at Mexico. In addition to these, INCID prepared and widely disseminated Call for Papers for the International Workshop on the theme "Water Saving Technologies in Tropical Regions of Asia". CMD, WAPCOS is coordinating the event as Member, WATSAVE Working Group and is scheduled to be held during the 57<sup>th</sup> meeting of IEC of ICID in Kuala Lumpur, Malaysia in September, 2006.

INCID had also brought out important documents on "Irrigation Acts of the States of North India" in two parts (Part-I: Punjab and Uttar Pradesh including Uttaranchal and Part-II: Himachal Pradesh and Jammu and Kashmir), which were released by the Hon'ble Minister for Water Resources, Prof. Saifuddin Soz on the occasion of World Water Day, in March 2006.

INCID had also instituted "JAIN-INCID AWARDS" to encourage engineers, scientists, agriculturists, economists, etc. who have made outstanding contribution in the field of irrigation and drainage. This year's Award – Krishi Sinchai Vikas Puraskar – was won by the Water Technology Centre, Tamil Nadu Agricultural University, Coimbatore, for their outstanding work done in developing modern technologies in related areas of irrigation.

Ministry of Water Resources, Government of India sanctioned 11 new research schemes pertaining to irrigation and drainage during 2005-06, in addition to the ongoing 28 research schemes under its mandate. INCID also worked in coordination with the CO of ICID for fulfilling the objectives of the CPSP and accomplishments of its tasks related to the Indian Regions. Indian National Committee (INCID) is to host the 5<sup>th</sup> Asian Regional Conference in 2009, on the theme "Improvement in Efficiency of Irrigation Projects through Technology Upgradation & Better O&M".

## Iran (IRNCID)

Iranian National Committee of ICID (IRNCID) nominated 11 of its members to take part in 15 work body activities.

IRNCID is a broad based National Committee with about 2000 members in their role list belonging to different disciplines and interests. The regional issues within the country pertaining to irrigation and drainage are handled by 9 regional sub-committees, which are spread out geographically. IRNCID has its own well developed website: <http://www.irncid.org> 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. The message board of the website has registered entries of 1000 members with 15,000 exchange messages.

Other activities of IRNCID to its credits during the period were :

- Conducting of scheduled meetings of Working Groups every other week to fulfill the specific annual objectives
- Dissemination of information by the Secretariat of IRNCID through Newsletters and Announcements to the 2000 IRNCID members and 9 Regional Irrigation and Drainage Committees (RIDCs) in various provinces of Iran to fulfill the regional objectives;
- Presentation of about 25 papers on irrigation and drainage during the seminars, symposiums and workshops in the 19<sup>th</sup> International Congress and 56<sup>th</sup> IEC meeting in September 2005.

- Exchange of views on INACID and IRNCID during the visit of Dr. A.Hafied. A.Gany, Vice President of INACID, the member of WG-HIST and the President of INPIM-INA. from 22-27 February 2006 to IRNCID for comparative observation on irrigation and drainage practices in Iran, particularly on PIM and Historical Irrigation Schemes.

IRNCID released 8 publications and organized 5 seminars and workshops during the period from 1 April 2005-31 March 2006. As a part of preparations for organizing the 4<sup>th</sup> Asian Conference and 10<sup>th</sup> International Seminar on PIM, the IRNCID secretariat prepared the pamphlet on “Call for Papers”, and distributed during the time of the 19<sup>th</sup> ICID Congress besides designing and launching of a comprehensive website (<http://www.pim2007.org>) with loading of the needed information for the stakeholders participation in the forthcoming events.

### Israel (ISCID)

Israeli National Committee of ICID (ISCID) nominated Dr. Jorge Tarchitsky to work for the Working Group on Use of Poor Quality Water for Irrigation (WG-PQW). The ISCID organized a Special Session on “Latest Trends in On-Farm Irrigation Technology” at Beijing, China on 12 September 2005. The objective of the Session was to disseminate latest technology and institutional advances in on-farm irrigation technology in Israel.

### Italy (ITAL-ICID)

Italian National Committee’s (ITAL-ICID) 14 nominated members actively participated in 22 work bodies (including AFRWG, ERWG, PCTA, EB-JOUR, ST-ARAL, C-PR&P and PFC) of ICID during the period from 1 April 2005 to 31 March 2006. In addition to this, the ITAL-ICID published two publications in February 2006 on the aspect on “Land Reclamation, Irrigation and Flood Protection in Italy over the Centuries”, in two volumes: Volume I deals with Physical, Agricultural and Economic Italy Today, and Climate and Land Change over the Past Millenia, while Volume II covers Greek Colonization; Masters of Hydraulics; Etruscan Land Reclamation; and The Romans, Pupils of the Etruscans in Hydraulic Matters.

In the closing session of the 21<sup>st</sup> European Regional Conference held at Frankfurt (Oder), Germany and Slubice, Poland in May 2005, ITAL-ICID Prof. (Mrs.) M.E.V. Scarascia, General Secretary invited all the participants to the proposed 22<sup>nd</sup> European Regional Conference to be held at Pavia and Rome, Italy in September 2007.

### Japan (JNC-ICID)

The Japanese National Committee of ICID (JNC-ICID) had associated with 22 work bodies including in ST-

ARAL, ASRWG, EB-JOUR, PFC and PCTA of ICID by involving 15 of its nominated members. The main activities of JNC-ICID during the reporting were:

- JNC-ICID made financial support of US \$ 8000 for publishing the Proceedings of the International Workshop on “Multiple Roles on Diversity of Irrigation” held at Beijing, China on 14 September 2005.
- The JNC-ICID celebrated the ICID Day by organizing a special lecture on “A New Direction in International Cooperation in Agricultural and Rural Development”.
- JNC-ICID made a presentation during the workshop, organized by WG-CAFM on “Flood Management” in Beijing, China on 11 September 2005.
- JNC-ICID established a Work Team to support the work of SDTA.
- Prof. Kuroda of JNC-ICID authored a Manual on “Planning and Designing of Micro Irrigation in Humid Regions” and was brought out by the Central Office was released at the Beijing meeting.
- JNC-ICID involved with Ministry of Agriculture, Forestry and Fisheries of Japan (MAFF) for studying the diversified role of irrigation water for establishing an International network on Water and Ecosystem in Paddy Fields (INEPF).
- JNC-ICID together with ASRWG coordinated 4 WWF activities, especially for the session on Sustainable Paddy Water Use and its Multi-functionality with Better Governance. The proceedings on “Multiple Roles and Diversity of Irrigation Water” published by the CO of ICID with the financial support of JNC-ICID was distributed in the 4 WWF session.
- In September 2005, PAWEES 2005 International Conference on Management of Paddy and Water Environment for Sustainable Rice Production was organized in Tokyo in Japan with the involvement of the JNC-ICID.

### Korea (KCID-ICID)

13 nominated members of Korean National Committee of ICID (KCID-ICID) involved in 14 work bodies (including PCSPWA, EB-JOUR and ASRWG) of ICID. KCID made a publication on “Evaluation of Draft Handbook on SDTA” with the support of Chinese National Committee (CNCID) and brought out the same during the time of the 4<sup>th</sup> International Workshop held at Beijing in September 2005 on Sustainable Development of Tidal Areas. INWEPF Second Steering Committee Meeting and Symposium on “Water and Environment in Paddy Fields” were held in Seoul, Korea on 2-4 November 2005. In PAWEES, 2005 International Conference held on 7-8 September 2005 at Kyoto, Japan, KCID members involved very actively.

The KCID-ICID also established a Work Team to support the addition of Chapter 2 and to prepare manuscripts

of other Chapters of the Handbook on SDTA and held a meeting on 13 July 2005 for deliberating various issues in this regard.

### Malaysia (MANCID)

4 nominated members of Malaysian National Committee of ICID (MANCID) involved in 8 work bodies, including EB-JOUR, ASRWG, C-CONGR and MB of ICID.

The MANCID will hold the 57<sup>th</sup> IEC meeting of ICID in Kuala Lumpur, Malaysia in which the MANCID will coordinate the hostings of workshops of WG-ENV, WG-CLIMATE, WG-CBTE, WG-CROP, WG-SDTA, WG-WATS, WG-ON-FARM, WG-PQW, WG-DRG, Special Session on TF-LDCsAS, 3<sup>rd</sup> Asian Regional and 7<sup>th</sup> Micro Irrigation Conferences. The MANCID will coordinate Irrigation, Drainage and Water 2006 Exhibition and will be held from 13-15 September 2006 in Kuala Lumpur. The exhibition will bring together companies, suppliers, manufactures, R & D institutions and academic establishments, and will showcase a diverse range of the latest products and emerging technologies in the field of irrigation, drainage and water industries. Further details can be viewed from the recently launched website < [www.icid2006.org](http://www.icid2006.org) > or from < [www.icid.org](http://www.icid.org) > .

### Mexico (MXCID)

5 nominated members of the Mexican National Committee of ICID (MEXCID) involved in 5 work bodies including in AMRWG and EB-JOUR of ICID. The MXCID had organized a reunion/workshop in August 2005 in Mexico to analyze the theme, "Water Management for Food and the Environment" under the 5 cross-cutting perspectives. MXCID extended its offer to act as a link between ICID and the organization of 4 World Water Forum. For finalizing the ICID inputs in the 4<sup>th</sup> WWF, a joint meeting of Forum Organizers and ICID members including TF-1 was conducted and President Hon. Aly Shady as Chairman of the meeting discussed the strategies. In WWF-4 ,FT4 : Water Management for Food and the Environment, 20 March 2006, one of the most important Thematic Forums was organized by IWMI (Beacons) and ICID's MXCID (Co-Beacons). FT4.21 : Adequation of Water users' Rights and Productive Reconversion of Irrigation Districts, 20 March 2006 : 16.45-18.45 hours. This exclusive session is organized by Mexican National Committee of ICID (MXCID) with the co-sponsorship from National Irrigation Users Association (ANUR).

The MXCID, along with the coordination from the CO of ICID accomplished the tasks under CPSP and projected the outcome of their National Consultations and the reports brought out as an outcome of the studies were distributed during the sessions held at Beijing, China, in September 2005.

### The Netherlands (NETHCID)

17 nominated members of the Netherlands National Committee of ICID (NETHCID) involved in 25 work bodies including ST-ARAL, ERWG, EB-JOUR, C-PR&P and ASRWG of ICID. With the grant of The Netherlands, ICID published 9 reports of the CPSP under the CPSP Program during the period from 1 April 2005 to 31 March 2006.

Dr. Dick de Bruin, Chairman, of the WG-CAFM and member of the NETHCID had been nominated by the Secretary General in consultation with President, ICID for the participation in the project of WMO regarding preparation of a Manual on "Flood Mapping". The WG-CAFM contribution along with the support of the NETHCID members on the theme "Risk Management" for preparing and submission of a document during the time of 4<sup>th</sup> WWF was one of the main ICID's inputs to the 4 WWF technical sessions: FT 5 on Risk Management.

The Netherlands National Committee of ICID (NETHCID) organized "The NETHCID Symposia" on 13 April 2005 on the topic, "Impact of climate change on water management".

### Nigeria (NINCID)

During the reporting period of 1 April 2005 to 31 March 2006, the Nigerian National Committee involved with 11 work bodies (including ST-ARAL, AFRWG, PCSPOA, EB-JOUR and ST-LCB) activities through its 7 nominated members. During the Special Session on Lake Chad held at China on 11 September, the NINCID members participated in the sessions very enthusiastically.

The 60<sup>th</sup> IEC meeting and 2<sup>nd</sup> African Regional Conference are proposed to be held in Nigeria in 2009. The Chairman of NINCID and Federal Ministry of Water Resources and Rural Development are the main organizers of the proposed meeting and conference.

### Pakistan (PANCID)

Pakistan National Committee on Irrigation and Drainage (PANCID) represented in 10 work bodies of ICID (including in EB-JOUR, ASRWG and C-CONGR). PANCID in collaboration with National Engineering Services Pakistan (NESPAK) organized a national level consultation as a part of the Country Policy Support Programme (CPSP) at Lahore, Pakistan on 30 July 2005 to present and discuss preliminary assessment of Nari basin.

Pakistan National Committee of ICID (PANCID) had undertaken three studies, and published a technical report for Review of Research on Reuse of Brackish water, prepared a report on "Manual of Water Quality Criteria" for WT-PQW. Research papers of PANCID, namely, on (i) Social Impact Assessment of Sub-Surface Drainage Projects in Pakistan; (ii) Groundwater

Modelling to Assess the Effect of Interceptor Drainage and Lining; (iii) Bio-Saline Approach for Rehabilitation of Salt Affected and Waterlogged Land in Pakistan; (iv) Role of Sulphurous Acid Generator for Amending High RSC Waters and Reclaiming Salt-Affected Soils; (v) Impact of Sub-Surface Drainage Systems on Soil Environment; and (vi) Development of Reference Evapotranspiration Software for Irrigation Planning and Scheduling, were the key outcome papers during the period. They address various aspects relating to post-project complexities that may arise from various conditions/scenarios of the projects affecting the beneficiaries adversely and how to avoid them for achieving sustainable developments.

The PANCID is to host the 59<sup>th</sup> IEC meeting and 20<sup>th</sup> International Congress on Irrigation and Drainage in October 2008 at Lahore, Pakistan.

### Poland (POCID)

Polish National Committee of ICID (POCID) nominated Prof. W. Mioduszewski for participating in the ERWG activities. The POCID organized a workshop on "Irrigation Management Transfers in European Countries of Transition", just before the 21<sup>st</sup> European Regional Conference held from 13-15 May 2005 in Slubice (Poland) under the Chairmanship of President Hon. Prof. dr. Bart Schultz.

### Spain (CERYD)

The Spanish National Committee of (CERYD) involved with 14 work bodies of ICID through its 6 nominated members. CERYD and Spanish Association on Irrigation and Drainage (AERYD) jointly organized the 23<sup>rd</sup> National Congress on Irrigation with support and cooperation of the University Miguel Hernandez of Elche (UMH), and other national and regional entities such as Rural Development Directorate, Ministry of Agriculture, Valencian Community Ministry of Agriculture, Hydrographic Confederations of Jucar and Segura, and Seiasa-MS. The Gala function was arranged for three days with effect from 14-16 June 2005 and was held in the magnificent premises of the UMH at the Elche Campus in Spain. In addition to this, the Spanish Working Group on Benchmarking and FERAGUA (Andalusian Irrigators Communities Federation) also organized a joint one-day Workshop on 14 November 2005 at Cordoba University in Spain. The CERYD also sponsored WatSave Awards 2005.

### Saudi Arabia (SACID)

Mr. Abdulkareem M. Alghamdi, D/G General Administration for Irrigation Affairs (SACID) represented the ICID in the FAO Regional Conference for Near East, Republic of Yemen held from 12-16 March 2006. The conference agenda covered number of themes and among them the subject of was of important to SACID was "Adopting Drought Mitigation Strategies in the Near East Region". As the 1998-2000 drought, heralded

by several FAO Member Nations was the worst in 30 years that swept over much of the Region, triggering awareness for the need to develop national preparedness plans for drought mitigation and management, two sessions of the Regional Conference for the Near East were used to provide FAO technical assistance to the Region's member countries for enhancing their drought mitigation capacities, both at national and regional levels and to achieve the established goal of adopting mitigation strategies in the Near East Regions.

FAO recommended in this front the following local actions :

- To focus on water demand management approach
- To consider efficiency of water use as the basis for drought mitigation
- To increase investment in agricultural research
- To improve water use efficiency and crop production under water shortage conditions
- To develop drought and salt tolerant varieties.

### South Africa (SANCID)

The South African National Committee on Irrigation and Drainage (SANCID) had nominated 12 members and used their membership for actively participating in 16 work bodies including EB-JOUR, AFRWG, ST-LCB and PCSPOA of ICID. Mr. F.B. Reinders of SANCID and the member WG-ON-FARM and that of PCTA had been elected in September 2005 as one of the 9 Vice Presidents of ICID for the period 2005-2008.

In the OECD Workshop held in South Africa on 21-23 November 2005, the SANCID together with Vice President Felix Reinders of ICID explained ICID's efforts with regard to '*International Science and Technology Cooperation for Sustainable Development*'. ICID's efforts to enhance capacity building and technology transfer besides promoting good practices in respect of irrigation and drainage for food production were discussed in detail.

SANCID together with Southern African Regional Irrigation Association (SARIA) organized a SARIA Workshop from 30 January to 2 February 2006 in Pretoria, South Africa.

SANCID actively participated in 4 WWF held at Mexico City from 16-22 March 2006. The exclusive session of 4 WWF on FT4.20 : Capacity Development Strategies and Social Learning among Stakeholders for a Sustainable Irrigation and Drainage Sector that was held on 20 March 2006 was organized by South African National Committee on Irrigation and Drainage (SANCID) – The Water Research Commission (South Africa). Other co-sponsoring organizations for the event are Unesco-IHE and IPTRID.

SANCID plans to organize Symposium 2006, on the Theme: The Changing Face of Irrigation at Swadini Resort, Mpumalanga in South Africa from 15-17 November 2006.

## USA (USCID)

During this period, Dr. Mark Svendsen, president of the U.S. National Committee on Irrigation and Drainage (USCID) and member of the ICID WG-ILWRM had been elected in September 2005 as one of the 9 Vice Presidents of ICID.

The 3<sup>rd</sup> International Conference on Irrigation and Drainage was held at San Diego, California, USA on 30 March to 2 April 2005. During the conference, the USCID held a meeting of the Committee and a special sitting in which the Secretary General ICID, M.

Gopalakrishnan also participated to review the preparation for the proposed 58<sup>th</sup> IEC Meeting and USCID's 4<sup>th</sup> International Conference on Irrigation and Drainage on 30 September – 05 October 2007 in Sacramento, California, USA.

## Uzbekistan (UzNCID)

Uzbekistan National Committee of ICID (UzNCID) nominated three members from its National Committee to work under the workbodies of ST-ARAL, PCSPOA, ST-LCB, WG-IADWS and ASRWG. During the 4<sup>th</sup> WWF, the UzNCID organized an exclusive Session "FT 2.1.3 : IWRM as a basis for Social and Economic Development in Central Asia" on 18 March 2006 with the Inter-State Coordinator Water Commission of Central Asia (ICWC).



(1) USCID in action; (2) 19<sup>th</sup> Congress delegates on a visit to Three Gorges Dam Site; (3) PANCID at CPSP Session (4) 19<sup>th</sup> Congress delegates on a tour to Great Wall of China; (5) ANCID in OECD Session (6) UzNCID at 4<sup>th</sup> WWF.



Opening remarks by H.E. Mr. Hui Liangyu, Vice Premier of the State Council, P.R. of China



Keynote Address by President Keizrul bin Abdullah



Opening Ceremony Speech by H.E. Mr. Wang Shucheng, Minister of Water Resources, P.R. of China



Mr. Peter Lee, President-elect, ICID addressing the delegates at the Closing Ceremony



Closing Ceremony Speech by H.E. Mr. Zhai Haohui, Vice Minister of Water Resources, P.R. of China



Er. M. Gopalakrishnan, Secretary General, ICID reads out the 'Beijing Declaration'

The 56<sup>th</sup> International Executive Council (IEC) Meeting and 19<sup>th</sup> International Congress of International Commission on Irrigation and Drainage (ICID) were successfully held in Beijing, China from 10-18 September 2005. Beijing International Convention Center was the venue of the Congress. More than 500 delegates from 56 countries and several international organizations gathered. The theme of the Congress was **“Use of water and land for food security and environmental sustainability”**. While delivering the Keynote Address on the Congress Theme, President Keizrul bin Abdullah mentioned that in many countries, the demand and competition of food, water and land and other resources will increase. The way forward will be through more efficient and effective water use, and this can be achieved by moving from “more crop per drop” to “more crop less drop”. Full text of the paper can be viewed at [http://www.icid.org/19cong\\_keynote\\_keizrul.pdf](http://www.icid.org/19cong_keynote_keizrul.pdf).

Besides the Congress events, meetings of over 30 ICID Workbodies, International Executive Council (IEC), Round Tables, Task Forces, Symposium, Special Sessions, Workshops, Seminars, Exhibitions and Study Tours were also held.

## Congress Questions – Observations and Recommendations

The questions which were central to the theme of the Congress were : Question 52 (Improving water and

soil management for increasing efficiency in irrigated agriculture); and Question 53 (Harmonious co-existence with flood water).

### Question 52 : Improving Water and Soil Management for Increasing Efficiency in Irrigated Agriculture

Improvement in the productivity of irrigated agriculture is seen an important option to meet future world food demands. At the same time, irrigated agricultural system must be sustainable – based on renewable water supplies and in harmony with the environment. At Beijing, Prof. L.S. Pereira (Portugal), President, CIGR & Vice President Hon., ICID delivered the keynote address for Question 52 on “Improving Water and Soil Management for Increasing Efficiency in Irrigated Agriculture” and the topic was discussed by covering six sub-topics viz. (1) On Farm water and soil management, (2) Performance evaluation and integrated management, (3) Conjunctive use of water to optimize food production, (4) Policy options for water saving in irrigation, (5) Management transfer and participatory irrigation and drainage management, and (6) Application of information technology in irrigation and drainage management. The general observations and recommendations emerged were:

1. On-farm water management practices have a strong influence on the quality of agricultural

production and the sustainability of the agricultural production system. ICID should focus on issues related to direct support of agricultural producers. In addition to field irrigation systems and water delivery service, these include financial support and banking services, access to agronomic inputs, links to knowledge centers and government agencies, assistance with access to markets, and assistance with organization and management of water users associations and cooperatives. Such activities should be geared toward empowering farmers.

2. More emphasis needs to be placed on management of water supplies in such a way that agricultural production is sustainable. A clear understanding of the hydrology and water balance for a project is critical to making wise choices on utilization of surface and groundwater supplies. It should be recognized that water-saving technology at the farm level may have a different impact on water availability in different hydrologic settings. Selection of technologies for aid programs to improve field irrigation practices should be based both on the influence on farm productivity and on the net impact on the hydrology and supply availability and sustainability.
3. Irrigation water supply systems often do a poor job of supporting agricultural production. Raising the productivity of many large-scale irrigation projects will require significant improvement in the service provided to farmers. Water user associations and other intermediate non-government organizations need to be professionalized and empowered to provide the appropriate amounts of water and service to farmers. Funding sources for the modernization needed to provide the needed future service to farmers is a significant issue.
4. Poor use of existing technology and adoption of inappropriate technology continue to be a significant issue in most regions of the world. Many systems, at both the system and field scales, function inadequately just because of lack of knowledge by users and operators. Education and capacity building continue to be an important issue. Such efforts should precede modernization efforts so that users will be able to understand new technology and will be able to provide input into what technology is appropriate for their system. It is important to continue to develop new technology, but ICID should focus more on promoting programs that will lead to appropriate adoption of technology.
5. Recent efforts by ICID to develop methods for the evaluation and benchmarking of irrigation projects should continue. Data on the

productivity of projects and the performance of irrigation systems is extremely difficult to obtain and can be very inaccurate. While important progress has been made, more effort is needed to provide more realistic assessments that can guide modernization efforts.

### **Question 53 : Harmonious Co-existence with Flood Waters**

Floods are a recurrent phenomenon from time immemorial. Almost every year floods of ranging magnitude affect certain parts of countries. Floods may be caused by excessive snowmelt, heavy rainfall, cyclones, typhoons, etc. With the increase in development activities and occupation of floodplains, the magnitude of damages and losses has increased. In ICID's work the focus is on the river floods. The Keynote Address titled "From Philosophy to Action: Accomplish Harmonious Coexistence between Man and Flood" was delivered by Prof. Liu Ning, Engineer-in-Chief, Ministry of Water Resources, P.R. of China for Question 53 and flood issues were discussed under five themes viz., (1) Land use planning and its impact on flood and drought regime, (2) Integrated planning and management of flood diversion, storage, retention and discharge areas, (3) Adjusting urban and rural development to reduce flood risk, (4) Mechanism for protection relief and rehabilitation, and (5) Information technical systems and professional contingent for flood fighting.

The general observations and recommendations emerged were :

1. While flood protection measures have been attempted since long, levels of protection are generally below the economic optimum, especially for urban areas in flood prone zones. When an extreme event occurs, losses in terms of human lives and property are generally considerable.
2. With the limitations in physical solutions for flood protection and control, there is a need to move towards improved flood management approaches. A river basin approach with integrated flood risk management will generally be required to find optimal solutions.
3. For analysis and planning of appropriate solutions, reasonable databases need to be generated, a classification or categorization of the nature of floods, including the possible effects of climate change, needs to be made and methodologies need to be developed for realistic assessments of flood damages.
4. Water resource management including floods and land use planning are to move close to each other. It is vital that the mechanisms that lead to floods and droughts and the physical effects are fully understood, before mitigation and response measures are planned and implemented. Flood

Risk maps and floodplain zoning may help in reducing damages.

5. Appropriate institutional arrangements for flood management are necessary for study, planning, design and implementation of flood protection and management schemes. Coordination between the various agencies dealing with dikes, as well as with rail and road embankments and other works in floodplains is essential.
6. Flood forecasting will generally be a useful tool in operating large reservoirs and advance actions for evaluation of human habitation, where needed. For adequate follow-up actions after a flooding a suitable mechanism for relief and rehabilitation needs to be in place.
7. In many cases maintenance of flood control infrastructure needs more emphasis.
8. With respect to flood management in international rivers, cooperation between riparian countries is essential.

For detailed observations and recommendations under Question 52, Question 53, Special Session and Symposium, please visit the site <<http://www.icid.org/congress.html>>.

#### 6<sup>th</sup> N.D. Gulhati Memorial Lecture A Process-Based Approach to Improving the Performance of Irrigated Agriculture



Dr. Albert J. Clemmens (USA) delivered the 6<sup>th</sup> N.D. Gulhati Memorial Lecture for International Cooperation in Irrigation and Drainage at Beijing. In his lecture, Dr. Clemmens dwelt on the nature and constraints of large-scale irrigation systems and how one might provide a process based approach for improving the performance and productivity of irrigated agriculture. Full text of the Dr. Clemmens' lecture is available at [http://www.icid.org/nd\\_gulhati\\_2005.pdf](http://www.icid.org/nd_gulhati_2005.pdf)

#### ICID Award Winners, 2005

#### Best Performing National Committee Award

ICID in 2001 instituted the Best Performing National Committee Award (BPNCA) to recognize outstanding contribution, impressive achievements and excellence in performance of a National Committee. The excellence in performance is judged by an international panel of judges based on National Committee's work during the three years period between two consecutive Congresses. The award is presented triennially at the time of ICID Congress starting from 18<sup>th</sup> Congress held in Montreal in 2002. At Beijing, the 2<sup>nd</sup> BPNCA was presented to the Egyptian National



Committee on Irrigation and Drainage (ENCID). The award comprises a Rolling Trophy and a Citation Plaque.

#### Best Performing Work Body Award



The Best Performing Workbody Award (BPWA) was instituted in 2003 to recognize the performance of a workbody between the two Congresses. At Beijing, the first such award has been given to Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST). The WG-HIST was established in 1980. The Group has published more than 30 volumes of Water History related documents and books, including Historical Dams (2001), The Danube Valley (2004), The Indus Basin (2004), A History of Water Issues (UNU, 2005), and History of Irrigation and Drainage of various member countries. The Group is active in organizing seminars in every ICID congress and other conferences such as the History of Water Sessions at WWF-2 in the Netherlands and WWF-3 in Japan. Prof. N Hatcho (Japan) is the Chairman of the group since 2002.

#### WatSave Awards (2005)

ICID instituted the WatSave Awards in the year 1997 to recognize outstanding contributions of professionals to water saving/conservation for sustainable irrigated agriculture. There are three categories of watSave Awards viz., (1) Technology, (2) Innovative Water Management, and (3) Young Professionals. So far, 19 professionals from 10 countries have been honoured with these awards. The awards are presented every year at the International Executive Council (IEC) meetings. Each award carries prize money of US\$ 2000 and a citation. For more information, please visit <http://www.icid.org/awards.html>.

#### Innovative Water Management Award

Prof. Li Daixin is presently Director General, Dept. of Irrigation, Drainage and Rural water Supply, Ministry of Water Resources, and Chairman of Chinese National Committee on Irrigation and Drainage (CNCID). Prof. Li has played a key role in organizing the "Rehabilitation and Modernization of large-scale Water Saving Irrigation Programs in various districts of China. As a result, by the end of 2004 the water saving irrigation area was extended to 7.67 million ha and more than 20 billion cubic meters of water has been saved annually. The irrigation efficiency has reached 45% and on an average the irrigated agricultural productivity has reached 1.1 kg/m<sup>3</sup>. More information on Prof. Li's work is available at [http://www.icid.org/ws1\\_2005.pdf](http://www.icid.org/ws1_2005.pdf).



#### Young Professionals Award

Dr. Mohamed Maher Mohamed Ibrahim who was the recipient of the Young Professional Award of the year



2005 is an Asst. Lecturer at Agricultural Engineering Department, faculty of agriculture, Mansoura University, Egypt. He has developed a user friendly "Computer-Aided Mapping Irrigation Scheduling Model" (CAMISM) to schedule irrigation for different locations positioned

geographically on the Egyptian map. The amount of water saved with the application of CAMISM has reached a total of 102, 128 and 143 million cubic meters for corn crop in Toshka, groundnut in Maruot and wheat in Sakha regions, respectively. Dr. Ibrahim's award winning paper can be accessed at [http://www.icid.org/ws3\\_2005.pdf](http://www.icid.org/ws3_2005.pdf).

## Beijing Declaration

ICID member countries those who attended the 19th Congress made the following Declarations and Recommendations for the attention of world leaders and decision makers :

- ICID has formulated its position towards the challenges in four position papers, being: (i) Global Issues Related to Food Production, Security and Trade; (ii) Irrigation and Drainage Services - Some Principles and Issues Towards Sustainability; (iii) Country Policy Support Program (CPSP); and (iv) Promoting Appropriate Decision-Making Procedures for New Dams, particularly for Irrigation, Drainage and Flood Management. Through its work bodies, congresses and conferences, ICID promotes improved water management practices in support of food production, livelihood in rural areas and environmental sustainability. The Commission disseminates its messages through its network: its website [www.icid.org](http://www.icid.org), Newsletters and Updates, its Journal Irrigation and Drainage and its Congress and Conference Proceedings.
- The key to increase future food production lies in expansion of irrigated and drained lands where potential exists; in better water and land management in existing irrigated and drained areas; and in increase in water use efficiency and land productivity.
- Even while acknowledging the best efforts to achieve a control in the growth trend, the needs of over eight hundred million people by 2025 are still to be met. Despite an apparent sufficiency in the world food production, the inequity and the problem of malnutrition in Least Developed Countries persist and about 20% of the world's poor people still starve or are underfed. The global food production will have to be doubled to achieve satisfactory food security for all.
- Irrigation will play a greater and dependable role in meeting future food demands than in the past. The goal shall be to achieve 'Grow More Food with Less Drops'. This will be feasible with the advancement in technology, modernization, better management of irrigation and, where applicable, drainage systems. Further efforts to explore ways to produce more food with less water under sustainable conditions would have to continue through Research and Development, Capacity Building and spread of Technology.
- Fresh water resources are being stretched to their limits in several regions and countries, which call for an utmost consideration of efficient use so as to safeguard environmental sustainability. IWRM shall be the key in such cases.
- Given the need of the least developed countries where there is population pressure and an increased food requirement, installation of small-scale, low-cost irrigation and/or drainage systems in cultivated lands without such systems so far will have to be seriously considered. In addition, potential land for cultivation may have to be reclaimed. Increasing the water storage



capacity for food production and the investment needs in such cases deserve priority. The resources will be required to be exploited in a sensitive manner with due consideration to environmental sustainability.

- The dire challenge to professionals working in the field of irrigation, drainage and flood control lies in their ability to design, operate and maintain a new generation of efficient water management systems, while sustaining ecosystems and the environment. Integrated approaches in the sector should bring in not only scientific and technical, but also the socio-economical and environmental aspects.
- Increasing population has led to the settlement in and cultivation of flood prone areas resulting in increased emphasis on flood management in many regions, particularly South- and East Asia. This region has a population of over 2.9 billion, which is nearly half of that of the world. It is estimated that about 80% of the population will live in flood prone areas by 2050. In addition to heavy rainfall and floods, huge man-induced changes such as uncontrolled land reclamation and inadequate land use planning, may increase the vulnerability of flood prone areas. An integrated flood management approach including structural and non-structural measures based on risk management principles with public participation, is required to mitigate losses due to flood hazards. It is noted that living in harmony with Nature is essential to managing floods.
- Financial allocation for development or operation and maintenance of existing irrigation and drainage systems has not been adequate for many existing water management systems, bringing such systems in danger of being unable to perform their function. Low water prices and inappropriate management are also causes of low water use efficiency, waterlogging and soil salinity. Institutional reforms in the public sector and emergence of professionally managed community based organizations will enhance the efficiency and effectiveness of water and land rights, appropriate legal and institutional framework and better performance measures and assessments.
- Inter-sectoral, and in some cases regional competition for water are factors of major concern and have to be resolved by objective studies which can provide useful Country Policy Support indicators. Interdisciplinary efforts to comprehensively address water assessment can help to promote a better trade off in case of conflicts.

## 1. Workshop on “Use of Water and Land for Food and Environmental Sustainability – Role of Young Professionals”, Beijing, China

The Working Group on Young Irrigation Professionals Forum (WG-YPF) organized a one-day workshop on “Use of Water and Land for Food and Environmental Sustainability – Role of Young Professionals” on 12 September 2005 during the 19<sup>th</sup> ICID Congress held in Beijing, China.

Thirteen full-length papers were accepted by the Workshop Secretariat and a full day was considered for the authors to present their papers. The papers were presented on the following chosen sub-themes:

- Use of advanced technology; Use of IT, Remote Sensing, GIS, Automation and Benchmarking.
- Public – Private Sector Participation
- Water Saving in Irrigation
- Water Quality Management and Environmental Sustainability.



Citations and prizes were distributed to the best paper presented by Mr. Stephan Piotrowski, a student of the University of Hohen Heim, Germany as well as to Mr. Alireza Salamat as the

Chairman of the Working Group for organizing such a fruitful event and providing an atmosphere for the young professionals to present their papers and express their views.

## 2. Workshop on “Flood Management”, Beijing, China

The Working Group on Comprehensive Approaches to Flood Management (WG-CAFM) had organized a one-day workshop on “Flood Management” on 11 September 2005 at Beijing, China. Apart from an interesting keynote speech by President Hon. Bart Schultz, there were presentations from USA, Japan, Delft Hydraulics, Iran, The Netherlands, Spain and UK representatives. The workshop was attended by as many as 65 people. All papers had been made available on a CD to the participants.

Essentials of the two manuals as published by the WG-CAFM in 1999 and in 2005 were presented. Aspects of public awareness and disclosures (in relation to insurances) were deliberated in the workshop. In the lively discussions, references were made to institutional aspects, legislation, supervision,

enforcement, safety standards, information/broadcasting systems for achieving a longer reliable lead time (early warning), creativity and flexibility in design approaches of flood control structures and consistency across administrative borders in a river basin. Analysis done at UNESCO-IHE on the data on floods and to the development of hazard maps was also highlighted. It was stated that a better balance should be developed between the frequency of design floods for main levees and dams in a river basin.

During the workshop, there was a presentation on Value Engineering. The Iranian representative proposed to set up a new ICID Working Group on this issue. The functioning of floodwater passes was discussed, in particular, how to keep these fertile corridors free of too many obstacles and obstructions. In this respect, the importance of zoning and spatial planning of flood prone areas was stressed. During the workshop, it was also recognized that the crucial developments in flood management were implemented in the aftermath of disasters like floods, and not as a result of balanced and effective anticipation.

## 3. Special Session on “Driving Research for Change in Irrigation and Drainage Practices”, Beijing, China

The Working Group on Research and Development (WG-R&D) organized a Special Session on “Driving Research for Change in Irrigation and Drainage Practices” on 12 September 2005 during Beijing Congress. The special session identified key issues, such as (i) How to bridge the gap on Large Systems Operation & Maintenance? (ii) How to assess the value of R&D in irrigation and drainage? (iii) How to move from research to innovation? and (iv) What are (and are there in) R&D policies and funding mechanisms in developing countries?

Representatives from Australia, India, Malaysia, South Africa, and Netherlands agreed to submit their national structures for R&D activities and funding and they are now in the processes of assembling it for further discussions in the scheduled forthcoming meeting of the Working Group in Kuala Lumpur, Malaysia in September 2006.

A merger of WG-R&D and AC-IPTRID was also deliberated in the Special Session and was agreed to since both the Groups can work closely together to avoid duplication of efforts and be more effective.

## 4. Workshop on “Benchmarking and Quality Assurance”, Beijing, China

The international initiative on benchmarking in the irrigation and drainage sector began in the year 2000.

Initially coordinated by IPTRID, this is a joint initiative of the WB, IPTRID, IWMI, ICID and FAO. The initiative was launched at a workshop held in Rome, in August 2000 in which the principles and objectives of the benchmarking were discussed. ICID set up a Task Force on Benchmarking of Irrigation and Drainage Projects at the 51<sup>st</sup> IEC held in October 2000 at Cape Town followed by a dedicated website to disseminate benchmarking information, which was established by IWMI in 2001.

The Task Force remained in operation until the year 2005, when its operation concluded. The Working Group on Development and Management of Irrigation Systems (WG-DMIS) of ICID was then mandated to continue the support for the benchmarking initiative.

As a result of this effort, several ICID member countries initiated benchmarking programs, which adopted the original set of global indicators supplemented by country specific indicators selected according to country priorities. These efforts have now achieved various degrees of progress ranging from basic data gathering, processing and integration into management processes.

The workshop on “Benchmarking and Quality Assurance”, was held on 13 September, 2005 in Beijing, China with the main objective to evaluate the country-benchmarking initiatives, in particular, the contribution that benchmarking had made to improve management processes in irrigation and drainage organizations. During the workshop, there were eight presentations on the topic one each from Egypt, Australia, Mexico, India, Tunisia, West Africa, South East Asia and Morocco.

### **5. Special Session on “On-Farm Irrigation Technologies”, Beijing, China**

Two thirds of the area of Israel is covered by the Negev desert with an arid and semi-arid climate, defined according to average rainfall (2-6 inches), type of soil, and natural vegetation. Following a visit to the region in 1867, Mark Twain described the Negev Desert in his book “The Innocents Abroad” as “a desolation that not even imagination can grace with the pomp of life and action...”

Having such poor conditions, the Negev was largely undeveloped and sparsely populated, when the state of Israel was established 57 years ago. However, through responsible water use and soil consideration programs and a close cooperation between researchers, government, farmers and agriculture-related industries, Israel has developed a market-oriented agri-business, that exports fruits, vegetables, flowers and agro-technology solutions worldwide.

The Special Session on “On-Farm Irrigation Technologies” was convened in Beijing, China on 12 September 2005 for discussing the adopted strategy in Negev desert of Israel related to water industry, irrigated agriculture, crop management and the

engineering solutions for achieving long term sustainability in water economy.

The main topics considered under the Special Session were – (i) Turning the stress to a blessing – the Israeli experience in developing a prosperous desert agriculture by Dr. Uri Or, Senior Agronomist Netafim Irrigation Company; (ii) Integrated Water Resources Management by Mr. Yossi Harosh, Vice President, TAHAL Consulting Eng. Ltd.; (iii) National water management – The Israeli government role in directions and incentives for efficient and economical usage of water for agriculture by Mr. Yacov Leve, Director, Water Conservation Division, Israeli Water Commission; (iv) Close cooperation between Israeli researchers, extension agents, farmers and agriculture-related industries by Ms. Ronit Golovaty, Head of Agro-technology and Water Department, Israel Export and International Cooperation Institute by Ms. Ronit Golovaty MSc. Agr. Head of Agro- technology and Water Department, the Israel Export and International Cooperation Institute. After the completion of presentations, questions and answers forums were conducted prior to the conclusion of the Special Session.

### **6. Workshop on “Drainframe and their Case Studies”, Beijing, China**

The DRAINFRAME looks at drainage from an integrated water resources management perspective and follows a participatory approach in analyses and planning.

The Working Group on Drainage (WG-DRG) of ICID in cooperation with the Agricultural and Rural Development of the World Bank conducted its Annual Workshop on “Drainframe and their Case Studies” during the time of the 56<sup>th</sup> IEC meeting and 19<sup>th</sup> Congress of ICID at Beijing, China. The Workshop basically on Drainframe was held on 13 September 2005, where the concepts of DRAINFRAME as adopted in countries like Australia, Egypt, and Pakistan were presented and discussed. A Panel of experts discussed the prospects of promoting the integrated approach DRAINFRAME further within the ICID member countries to scale-up drainage practices for sustainable development, growth, and poverty reduction. The participants supported for further dissemination and advancement of the DRAINFRAME concept in other countries also. Hardcopies of the DRAINFRAME reports and a training CD were distributed amongst the participants.

### **7. History Seminar on Management of Historical/ Traditional Irrigation Projects, Beijing, China**

The Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST) conducted a History Seminar on “Management of Historical Traditional Irrigation Projects” on 12 September 2005 at Beijing, China. Out of the 11 papers contributed for the Seminar, 7 papers were presented by the representatives from China, Mexico, The Netherlands, Iran, Indonesia, Iran and IHE-Delft. Summary of the discussions and findings would project in the forthcoming meeting of the Working

Group in Kuala Lumpur, Malaysia in September 2006.

## **8. Workshop on “Evaluation of Draft ICID Handbook on SDTA”, Beijing, China**

The Working Group on Sustainable Development of Tidal Areas (WG-SDTA) organized its 4th Workshop on “Evaluation of Draft ICID Handbook on SDTA” in two sessions at Beijing on 13 September 2005 with the support of Chinese National committee. The workshop comprised of presentations (1/2 day) followed by round table discussion (1/2 day) on the contents of the draft handbook. The published material of the fourth Workshop comprised of the draft handbook including main chapters and case studies. The proceedings prepared with the support of Korean National Committee of ICID (KCID) were distributed to WG members in Beijing. The WG will also organize its Workshop on “Sustainable Development of Tidal Areas” in specific regions of the World during 57<sup>th</sup> IEC meetings at Kuala Lumpur in Malaysia.

## **9. Workshop on “Multiple Roles and Diversity of Irrigation Water”, Beijing, China**

Workshop on Multiple Roles and Diversity of Irrigation Water was held on 14 September 2005 with the participation of four international organizations (IWMI, FAO, WWF, and PAWEE) and other representatives from Asia, Australia, and USA. The presentations of various experiences on the understanding and analyses on multiple roles and diversity of irrigation as well as possible measures to enhance its benefits (ecosystem services) were made followed by discussions.

Under current declining food prices, small scale irrigated agriculture in Asia has been losing its economic viability, which can also lead to the loss of other multifunctional roles (ecosystem services) manifested with the water use and related farming practices. Therefore, more productive use of water needs to be established to enhance the overall environmental and socio-cultural benefits obtained through the uses of water and its interactions with ecosystem. Pro-poor low cost technology and investment options of water with less impact on environment should be introduced to enhance the sustainable development of irrigated farming.

New business model including eco-tourism is being tested to enhance overall benefits of irrigated farming and associated farming practices, but its impact has not been well documented. Not only modern technology or science but also traditional knowledge/wisdom and cultural heritage should be duly integrated into the development approach. More research is needed on the understanding of the interactions of water with ecosystem and the manifestation of various benefits (services) in a basin with wide perspective.

Multiple uses of irrigation and related facilities for productive purposes and multiple roles (non-commodity outputs) should be distinguished. However, multiple

uses of water should be promoted to enhance overall productive benefits. More research and data is also needed to understand the complex nature of physical, socio-economic as well as cultural/personal preferences and quantify cost-benefit aspects, taking into account of regional/local characteristics as well as spacial and seasonal variations of resource availability. Farming practices and uses/management of water that can enhance the ecosystem services should be promoted and supported. Mind sets of general public and policy makers to focus more on eco-agricultural perspective through the understanding of multifunctional roles of irrigated farming in their decision-making would be needed to establish for sustainable irrigated farming and water management/uses.

## **10. Workshop on “Design and Implementation of Capacity Development Strategies”, Beijing, China**

The third in the series of workshop on Capacity Development in Irrigation and Drainage was held during the 19<sup>th</sup> ICID Congress in Beijing on 14 September 2005 on the theme, “Design and Implementation of Capacity Development Strategies”. Beijing workshop was based on the outcomes of the previous two workshops held at Montpellier (2003) and Moscow (2004). The three main objectives of the third workshop were: (i) To present general overview on how Capacity Development activities are being practiced in developing countries and how to translate the theory into practical terms and concrete actions, (ii) To provide guidance for successfully engaging in the processes of designing and implementing a capacity development strategy and (iii) To provide a platform for further collaboration and networking in the field of capacity development for agricultural water management.

The workshop opened with a keynote paper, presented by IPTRID followed by a series of case studies on design and implementation of Capacity Development Strategies. An additional concept paper presented by UNESCO-IHE, Institute for Water Education, introduced based on the theme set for the 4<sup>th</sup> World Water Forum, namely, Capacity Building and Social Learning. Deliberations after each presentation with a final plenary discussion in the concluding session allowed in-depth analysis and review of the issues on the design and implementation of capacity development strategies. The IPTRID published the output of the Beijing Workshop during the year 2005 and the details can also be viewed on the website: <http://www.fao.org/iptrid/>.

## **11. Special Session on “Crisis of Transboundary Water Management in Lake Chad”, Beijing, China**

The Special Work Team on Lake Chad (SWTLC) and African Regional Working Group (AFRWG) organized

a Joint Special Session on Lake Chad on 11 September 2005 during the 19<sup>th</sup> Congress of ICID held at Beijing, China on the theme on “Crisis of Transboundary Water Management in Lake Chad”.

The Lake Chad is an international shallow freshwater lake located within west and central African region. It is estimated that nearly 30 million people live in the basin (in parts of Cameroon, Chad, Central African Republic, Niger, Nigeria, Sudan, Algeria and Libya). Most of the people in the basin are dependent on the natural resources of the basin for their survival. The overuse and abuse of wetlands and their resources are threatening wildlife and livelihoods in this region, which is characterized by a mixed situation of poverty and environmental fragility.

The Special Session was designed to sensitize the participants with the issues of the basin’s land and water resources degradation and their effects on vegetation, livestock and human resources as well as the current and proposed efforts to resuscitate the natural resources so as to utilize them on a sustainable basis. Engr. M.S. Adamu, Executive Secretary of Lake Chad Basin Commission (LCBC); Mr. Julian Barr, Project Director of Joint Wetland and Livelihood Project (JWL) of DFID-UK; Mr. Boubakari Mana, Director (LCBC); and Mr. Yahaya Kazaure and S. D. Abdulkadir of Hadejia-Jama’are River Basin Development Authority, Nigeria presented papers relevant to the topic.

The resolutions of the Special Session were:

- The special and peculiar situations prevailing in Lake Chad basin as well as the rapidly changing paradigm for integrated water resources management were acknowledged. The situation calls for concerted effort from all stakeholders with the support of all well-meaning individuals, organizations and development partners to ensure sustainable use of its water resources and eco-system management.
- Donors are encouraged to continue to support the laudable programmes; the planners and decision makers are to learn and utilize the lessons from the projects, which are in progress.
- All stakeholders should be sensitized on the issues of comprehensive nature of IWRM and the balance between supply and demand of the Lake Chad regions.

The session expressed its full support for the formation of the Special Work Team on Lake Chad (SWTLC) by ICID and expressed the need for coordinating its activities with Special Work Team on Aral Seas (ST-ARAL), Task Force on “Inter Basin Water Transfers (TF-IBWT)”, Working Group on Integrated Land and Water Resources Management (WG-ILWRM); and Working Group on Irrigated Agriculture under Drought and Water

Scarcity (WG-IADWS). The session called for special effort to get member States of LCBC to join ICID.

## 12. Special Session on “Country Policy Support Program (CPSP)” – Beijing, China

Special Sessions on the Country Policy Support Program (CPSP) launched by ICID in 2002 with a funding support from the Government of The Netherlands was held at Beijing on the occasion of 56 IEC/19 ICID Congress on 11 and 12 September 2005.

The CPSP commenced in two phases is nearing completion. The 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 program 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.

The session, which was held on 11 September 2005 covered presentations on studies carried out in China and India and a presentation by IWMI on WATERSIM modeling approach. On 12 September 2005, National Committees of ENCID, MXCID, and PANCID projected the outcome of their National Consultations. Various reports brought out as an outcome of the CPSP studies, in the five participating countries were distributed during the sessions. For further details, please visit the ICID website <<http://www.icid.org/cpsp.html>> and/or contact ICID <[icid@icid.org](mailto:icid@icid.org)>.

## 13. 3<sup>rd</sup> International Conference on “Irrigation and Drainage”, San Diego, California, USA

The 3<sup>rd</sup> International Conference on Irrigation and Drainage on “Water District Management and Governance” was held in San Diego, California from 30 March to 2 April 2005. The conference had contributions on water management issues from all over the globe. The focus was mainly on the theme on Water Users Associations and 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 to two impressive irrigation projects in Imperial Valley demonstrated excellent water management practices using latest ‘State of the Art’ technology. Imperial



Participants on a field visit to Imperial Valley

Irrigation District and Coachella rank amongst the best projects around the world that give valuable lessons not only in water management but also on efficient governance. With the growing awareness for ecology and concerted attempt to bridge conflicting interest between urban, agricultural and ecological interest 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 58<sup>th</sup> IEC meeting in Sacramento, 2007.

#### 14. 23<sup>rd</sup> National Congress on Irrigation organized by CERYD

The Spanish Working Group on Benchmarking and FERAGUA (Andalusian Irrigators Communities Federation) jointly organized a one day Workshop on 14 November 2005 at Cordoba University in Spain. Some 30 invited professionals; engineers and professors attended the workshop from the High Technical School of Agricultural and Forest Engineering (ETSIAF). The workshop aimed to achieve: (i) the improvement of water use management in irrigated areas, and (ii) the rational and sustainable use of water resources. The final results of the Studies on benchmarking techniques and indicators, carried out in 12 selected Irrigators Communities of Andalusian Region, were presented to representatives of some of the main Irrigators Communities (IC) of the Region, namely: N.S. Dolores, Genil-Cabra, Seccion 1<sup>a</sup> de Marismas, Guadalquivir, Pantano del Rumblar, Valdeojos-Hornillo, J.M. Bellido, M.D. Bembezar and Genil Margen Dch/Izq.

Three special presentations were made on: (a) "Importance of Management Indicators for the improvement of ICs" and "Definitions of the Indicators used in the Study" by Prof. Emilio Camacho; (b) "Comparative analysis (Benchmarking) of the ICs studied", by Dr. Luiz Perez; and (c) "Improvement lines in each Irrigator Community" by Dr. Juan A. Rodriguez-Diaz. The workshop had lively open debate and intervention, adding to the paper contributions on benchmarking technology to effectively improve the Irrigators Communities performance in all aspects.

#### 15. Southern African Regional Irrigation Association (SARIA) Workshop, Pretoria, South Africa

SANCID together with Southern African Regional

Irrigation Association (SARIA) organized a SARIA Workshop from 30 January to 2 February 2006 in Pretoria, South Africa. The theme of the workshop was "Sustainable Agricultural production in SADC". The objectives aimed at SADC countries were: (i) Invention of the natural resources in SADC countries including water-related infrastructure; (ii) Deliberation of the most beneficial use of resources; (iii) Enhancement of communication, research, training and development of appropriate science and technologies in water use efficiency and economic development to improve the livelihoods of the inhabitants of the SADC region; and (iv) Establishment of links to networking with related regional and international initiatives and programs. A technical field excursion was organized on 31 January 2006. Papers from SADC countries, as well as other three expert presentations on Soil Productivity; Rainwater harvesting technologies; and Climate were presented in the workshop.

#### 16. Organization for Economic Cooperation Development (OECD) – Workshop on "Agriculture and Water: Sustainability, Markets and Policies", Adelaide, Australia

Organization for Economic Cooperation and Development (OECD) held a workshop on "Agriculture and Water: Sustainability, Markets and Policies" at Adelaide in Australia during 14-18 November 2005. On an invitation received from the OECD'S, Secretary General, ICID M. Gopalakrishnan introduced ICID'S CPSP initiative in the workshop. Subsequently, the efforts to address the issues on "Challenges in Water for Food, People and Environment" with the help of a comprehensive land and water use modeling at basin level and the results emerging out of the studies in suggesting policy options for several likely scenarios in the future were also explained.

Several OECD countries, non-OECD members, International Government and Non-Governmental Organizations were participated in the workshop for focused discussions and review of:

- Sustainability dimensions of agriculture water use and impact on water resources (quality and quantity);
- Current policy and market approaches used by OECD countries; and



Secretary General, ICID, with OECD Participants

- Improving economic efficiency, environmental and social effectiveness and institutional performances.

Besides this, a poster presentation on CPSP was also organized. Many ANCID members also participated in the workshop. In a special breakfast session, ANCID highlighted successful recent innovations on 12 of its case studies.

### **17. International Committee on Large Dams (ICOLD) Annual Meeting, Tehran, Iran**

The 73<sup>rd</sup> Annual meeting of International Committee on Large Dams (ICOLD) was held in Tehran, Iran from 1-11 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 Mr. M. Gopalakrishnan, Secretary General, ICID to participate in their Committee meetings, symposium, and workshop so as to enable sharing of knowledge, new technologies and advancements in the Industry. This was accepted and attended in the ICOLD annual meeting.

Iran ranks 3<sup>rd</sup> significant dam builder country in the world just after China and Turkey. The main focus of the Special Sessions in the annual meeting was 'Seismic Aspects and Uncertainty Assessment in Dam Engineering'. The meeting of ICOLD's Committee on Dams and Water Transfer also took place under the chairmanship of Dr. C.D. Thatte, former Secretary General, ICID. A joint meeting between ICOLD, IAH and ICID to mutually exchange their views on their role, at the time of participation in the 4 World Water Forum was also held. 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 progress made by Iran, since last two decades. During the field visits, it was seen that 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 Karun dam will yield supply of irrigation water for 320,000 ha of farmland besides controlling downstream flows through flood moderation.

### **18. PAWEES2005 International Conference on "Management of Paddy and Water Environment for Sustainable Rice Production", Kyoto, Japan**

PAWEES 2005 International Conference was organized on 7-8 September by International Society of Paddy and Water Environment Engineering and was co-organized by JSPS (Japan Society for the Promotion

of Science), JSIDRE (Japanese Society of Irrigation, Drainage, and Reclamation Engineering), NIRE (National Institute for Rural Engineering, Japan), and KSAE (Korean Society of Agricultural Engineers). CIGR Section 1 extended its co-sponsorship for the event. The conference brought together leading representatives from academia and international authorities including experienced engineers for focusing on the thematic areas:

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

It was felt that rice, which feeds a half of the world population, was the most important crop in the world and its production process generated millions of jobs. The conference reached the conclusion that the future status of societies depended on how the rice systems were managed in a sustainable manner, since rice was strongly linked to food security, poverty and the natural environment of many regions.

### **19. Joint Session with INWEPF during 4<sup>th</sup> WWF, Mexico City, Mexico**

International Network for Water and Environment in Paddy Fields (INWEPF) and ICID Asian Regional Working Group (ASRWG) organized jointly a session on "Sustainable Paddy Water Use and its Multi-functionality with Better Governance" on 20 March 2006 in Mexico City during the 4<sup>th</sup> World Water Forum (4<sup>th</sup> WWF). This session was covered under the Framework Theme: "Water Management for Food and the Environment" and Cross-cutting Perspective: "Application of Science, Technology and Knowledge". In the Session, it was felt that Paddy water systems were essential to sustaining human life and natural ecosystems in many rural watersheds in Asia Monsoon regions and important to formulate common understandings in sustainable paddy water use in order to solve global water issues.

The session eventually led to three goals, "Food Security and Poverty Alleviation", "Sustainable Water Use" and "Partnership", following the Ministerial Recommendation by Ministerial Meeting on Water for Food and Agriculture in the 3 World Water Forum (3 WWF).

ICID community participated in the session and joined in the open discussions very actively.

## World Water Council (WWC)

ICID is one of the Constituent Members of the WWC. It retained the privilege of a Governorship in the Board of Governors of World Water Council (BoG-WWC) and was the main contributor in matters concerning Water for Food, for which a significant percentage of global water diversion takes place.

A new system of classifying the members of the Council into 5 different colleges took place in October 2003 in a BoG meeting of WWC, held in Marseilles. A crucial decision in the meeting was, barring one permanent position of the BoG for the Mayor of Marseille; all the rest of the 35 positions of Governors was to be contested subsequent to the terms of the Board ending in March 2006. In the system of college classification, ICID stood allocated in College 5: 'Professional associations and academic institutions'. 9 positions were reserved for this particular college. In the elections that took place for the new Board of Governor alongside 4<sup>th</sup> World Water Forum in Mexico, ICID contested, to retain the position in the BoG in



A view of the 21<sup>st</sup> BOG-WWC meeting

vain. ICID had offered to WWC 'possible options' that could govern ICID – WWC relationship, given the need to acknowledge the importance of Water for Food.

During the reporting year upto 15 March 2006, when the old BoG concluded its term, ICID's contributions to WWC were many. The Secretary General, who represented ICID as Governor in the WWC-BoG, participated directly or by proxy in all its scheduled events. He attended 21<sup>st</sup> meeting of BoG held in Rabat, 18-20 March 2005 and subsequently provided proxy (assigning the ICID vote to other **Office-Bearers of ICID family** who are also in the WWC Board, otherwise). Meetings that were held subsequent to Rabat are – 22<sup>nd</sup> BoG, 19-21 August 2005, Stockholm and 23<sup>rd</sup> BoG, 19-21 January 2006, Marseilles. Vice President Victor Dukhovny was given the proxy vote, (in addition to his own, as one of its Governors from College 1). President Hon. Aly Shady also in the BoG of WWC until March 2006, gave support to ICID's perception in the workbody, throughout.

The 24<sup>th</sup> meeting of BoG was held on 13-14 March 2006 and the 4<sup>th</sup> General Assembly on 15 March 2006 was the last to be attended. President Lee also joined the General Assembly and subsequent consultation meetings with stakeholders & elections.

The Secretary General helped Commission on Legal and Financial Affairs (CLFA) ever since 2004. He participated in all its virtual meetings. Secretary General undertook the role of contributing to an exercise of Sub-Group of CLFA, to address 'Representation of WWC' in other fora. The task was inconclusive as the 'Policy Guidelines to be evolved in BoG', which was to precede this exercise took more time than expected. CLFA also was wound up prior to BoG meetings in Mexico.

## 4<sup>th</sup> World Water Forum

In order to ensure a successful forum ICID supported the efforts of the Forum organizers, ever since the Kick-off meeting in March 2004. ICID invited the forum organizers to its annual events and congresses ICID extended a specific invitation to Forum Organizers for participation during ICID 19<sup>th</sup> Congress held in September 2005 in Beijing. 4<sup>th</sup> WWF organizers responded positively and were present during the Congress events. The occasion was utilized to spread the forum objectives. A joint 4<sup>th</sup> WWF and ICID press briefing was held in Beijing during the Congress.

Acknowledging the rich contribution of ICID in ensuring a very successful event in Mexico, the forum organizers sent a special letter of appreciation, as is seen in the box, given in page 54.

ICID together with other International Organizations and its National Committees had participated to contribute effectively in various sessions at 4<sup>th</sup> World Water Forum (WWF-4), Mexico City, Mexico during 16-22 March 2006. They were :

- **FT1.34 : Water Infrastructures for Sustainable and Equitable Development, 17 March 2006 : 11.15 – 13.15 hours.** This joint session was organized by IWRA, ICID, ICOLD, IHA, IAHR, IWA and supported by water industry and public utilities.
- **FT2.13 : IWRM as a Basis for Social and Economic Development in Central Asia, 18 March 2006 : 14.30-16.30 hours.** This exclusive session is organized by its Uzbekistan National Committee on Irrigation and Drainage (UzNCID) – Interstate Coordinator Water Commission of Central Asia (ICWC).



the traditional wisdom and experiences of local communities; and governmental assistance for adequate investment, modernization and management of rice water systems, in order to achieve food security, poverty reduction and conservation of ecosystems. The session is organized by ASRWG of ICID partnering with INWEPF.

- **FT4.03 : Drain for Gain, 20 March 2006 : 11.15-13.15 hours.** This exclusive session on “Drain for Gain – Agricultural Drainage for Sustainable Development” is organized by Egyptian National Committee on Irrigation and Drainage (ENCID) together with Working Group on Drainage (WG-DRG).

- **FT4 : Water Management for Food and the Environment, 20 March 2006.** This most important Thematic Forum is organized by IWMI (Beacons) and ICID’s MXCID (Co-Beacons). The planet’s food and environment are at grave risk due to deficient irrigation systems, demographic growth, a dearth of financial resources and increasingly new lifestyles and shifting emphasises : (i) The goal of reducing hunger in the world by half by 2015 is endangered : only one third of the population can now be assured of food security; (ii) Land for agriculture has dropped 30% due to the growth of population; (iii) A substantial part of the sixty percent of the plant’s fresh water diverted for irrigated agricultural purposes can be recovered and reused; and (iv) 96% of global malnutrition is found in developing countries : five million children die every year due to inappropriate nutrition.



- **FT4.20 : Capacity Development Strategies and Social Learning among Stakeholders for a Sustainable Irrigation and Drainage Sector, 20 March 2006 : 16.45-18.45 hours.** This exclusive session is organized by South African National Committee on Irrigation and Drainage (SANCID) – The Water Research Commission (South Africa). Other co-sponsoring organizations for the event are Unesco-IHE and IPTRID.
- **FT4.21 : Adequation of Water users’ Rights and Productive Reconversion of Irrigation Districts, 20 March 2006 : 16.45-18.45 hours.** This exclusive session is organized by Mexican National Committee of ICID (MXCID) with the co-sponsorship from National Irrigation Users Association (ANUR).



- **FT4.15 : Sustainable Paddy Water Use and its Multi-functionality with Better Governance (ICID-ASRWG-INWEPF), 20 March 2006 : 16.45-18.45 hours.** Discussions would cover the multiple use, roles, values, services and other aspects of agricultural water in paddy farming regions, management and strategies;

- **FT5 : Risk Management.** International community had agreed on global target to halve by 2015, the number of loss of human lives by water related disasters. There is a need to build up the resilience to hazards in society. Adequate knowledge dissemination and transfer of technological developments in particular to the Least Developed Countries is urgently needed.

Capacity development programmes for water managers as well as public awareness raising programmes on risk management are direly wanted. Drought preparedness and mitigation should be able to ensure reasonably good prediction, monitoring, impact assessment, and prompt response. Water saving programmes have to start long before the resource is exhausted and cropping patterns should be adapted to the critical situation, which requires an early warning and seasonal forecast.

- **FT5.11 : Managing Drought Risks – Role of Improved Preparedness and Management, 21 March 2006 : 14.30-16.30 hours.** This joint session is organized by World Meteorological Organization (WMO). Other co-sponsoring organization is Regional Center of Meteorological Applications for Development (AGRHYMET).

### ICID cooperation with Organization for Economic Co-operation and Development (OECD)

On invitation to join their efforts focusing on Water and Agriculture, ICID participated in two important events organized by OECD during the year. One at Adelaide was held on 14-18 November 2005 and the other in South Africa was held on 21-23 November 2005. In respect of OECD Workshop held in Adelaide, Australian National Committee of ICID highlighted its unique efforts relating to water management in agriculture and in an exclusive '*breakfast session*' and demonstrated on innovation in irrigation showcase. Secretary General brought to the fore the unique efforts of ICID through its CPSP (*funded by the Government of Netherlands*). Dovetailing the interest of both water for food and environment (*besides the need for the people sector*), CPSP studies demonstrated possible paths as solutions for policy makers in an objective manner. The case studies in India were presented and the opportunities to extend similar studies to OECD countries were hinted.

In the Workshop held in South Africa, ICID was represented through its Vice President Felix Reinders. South African National Committee of ICID together with Vice President, ICID explained ICID's efforts with regard to '*International Science and Technology Cooperation for Sustainable Development*'. ICID's efforts to enhance capacity building and technology transfer besides promoting good practices in respect of irrigation and drainage for food production were discussed in detail.

### International Water Resources Association (IWRA)

Under the auspices of IWRA, the 12<sup>th</sup> World Water Congress was held from 22-25 November 2005. ICID and IWRA have a Memorandum of Understanding (MoU) (*since November 1994*) to enable an excellent

mutual cooperation in many of the tasks pursued by each other. For the 12<sup>th</sup> World Water Congress, ICID contributed in many forms. The International Steering Committee comprised members drawn from different world organizations like UNESCO-IHE, World Bank, DHI-Denmark, SIU-USA, ANA-Brazil, TWWMC-Mexico, Universities etc., and ICID. Secretary General Gopalakrishnan and Secretary General Hon. Thatte were in the steering group to plan a successful congress. President Lee, President Hon. Aly Shady, Vice President Dukhovny and Vice President Jeyaseelan, Secretary General Gopalakrishnan, Secretary General Hon. Thatte and Secretary General Hon., Chitale were important contributors in moderating some of the sessions / providing keynote speech / helping IWRA organize a very successful World Water Congress.

### International Water Management Institute (IWMI)

There was an intense participation of experts from IWMI during the 19<sup>th</sup> Congress of ICID and 56<sup>th</sup> IEC sessions. ICID's exclusive session on CPSP Phase-I – China and India was supported by participation; IWMI's expert Dr. Charlotte de Fraiture explained '*WATERSIM*' component of IWMI which formed part of ICID's CPSP exercise. IWMI held a separate session on '*Comprehensive Assessment*' during 56<sup>th</sup> ICID Congress in Beijing and ICID contributed during panel / floor discussion. IWMI team was led by Dr. Frank Rijsberman. Director General. Dr. David Molden led their team participating in CPSP WATERSIM discussions.

As a key contributor in different forms in the comprehensive assessment exercise, ICID extended its support to GWP for which some of the components were handled by IWMI. On invitation, Secretary General participated in a Special Session held in Montpellier, France, June 2005 to review Chapters for Comprehensive Assessment on Ecosystem Requirements and Irrigation. The key contributors for the dialogue included President Hon. Keizrul, Vice President Mark Svendsen, Vice President Gao Zhanyi and a few others from ICID family.

In the 56<sup>th</sup> IEC, a decision was taken that ICID would also join the theme on Water Management for Food as a Co-Beacon. IWMI led the theme and provided the basic document to begin with. At the instance of Chairman, TF- *To guide ICID inputs to 4<sup>th</sup> WWF*, Aly Shady, and the Central Office prepared a thematic document on the theme "*Water Management for Food*" to support the efforts of IWMI (*co-beacon for the theme*) and this was well received by Forum Organizers too.

### Global Water Partnership (GWP)

As partners of Global Water Partnership (GWP), ICID had been extending its support by participating in

various initiatives of GWP. The dialogue on Water for Food and Environment was one such instance. In the concluding session on the subject held in Stockholm, Secretary General joined the GWP meeting for an assessment of the task performed and way forward. ICID continued to contribute in comprehensive assessment in different fora like IUCN Congress (2004), GWP / IWMI Sessions etc. The CPSP studies helped us to provide an objective assessment in respect of studies relating to four basins, two each in India and China.

The links with regional working groups of ICID and GWP were quite rich. Significant contribution was possible from European Regional Working Group who continued to provide an excellent cooperation in the GWP Central and Eastern Europe.

### International Commission on Large Dams (ICOLD)

ICID retained its close relationship and cooperation with ICOLD. ICOLD website lists ICID as its main sister organization. ICID extended an invitation to ICOLD – President and Secretary General to join its 19<sup>th</sup> Congress and in response Vice President Jia Jinsheng joined this event. Earlier ICOLD had sent a special invitation to Secretary General Gopalakrishnan to attend its 73<sup>rd</sup> Annual meeting in Tehran in May 2005. This was responded positively where a meeting between IHA, IWRA, ICOLD and ICID could also be held to discuss possible joint approaches in the World Water Council and 4<sup>th</sup> World Water Forum.

ICOLD President, Dr. Cássio Viotti visited ICID Central Office on 2 February and held discussions of mutual interest.



*Secretary General Gopalakrishnan with Dr. Cássio Viotti, President, ICOLD*

During the 53<sup>rd</sup> IEC meeting of ICID held at Montpellier (France) in 2003, a decision was taken to establish a Task Force on Inter Basin Water Transfers (TF-IBWT) with the terms of references of collecting and compiling the relevant information on existing, ongoing and proposed Inter Basin Water Transfers, analyzing the crucial issues of such transfers, recommending a good practice to deal with such issues and publishing the material as an ICID reference document.

In the 2<sup>nd</sup> meeting of the TF-IBWT held at Beijing, China in 2005 felt the need for working in coordination

with ICOLD to enhance the ToRs of the TF-IBWT and requested the ICOLD to nominate a representative in TF-IBWT. Accordingly, ICOLD has nominated Dr. C.D. Thatte, former Secretary General, ICID as its representative in the Task Force.

### International Standards Organization (ISO)

ICID has been participating in the ISO Technical Committees, namely, TC23/SC18 (Irrigation Equipment), TC113 (Hygrometry) and TC190 (Soil Quality). With the cooperative arrangement between the two organizations, ISO is invited to ICID's International Executive Council (IEC) as Permanent Observer. ICID regularly participates in ISO's various meetings through its National Committee representatives in the concerned countries, where the meetings are held.

The information and draft reports received from ISO are shared with the members of the respective ICID work bodies. The Working Group on On-Farm Irrigation Systems (WG-ON-FARM) receives information on ISO TC/23 SC/18 as and when circulated by ISO. ICID members are attempting the draft joint document of ISO/CEN/ICID, "Handbook on Irrigation Equipment Standards".

Dr. J.E. Ayars (USA) participated in the 24<sup>th</sup> meeting of TC/23 SC18 in Phoenix, USA in November 2005, on behalf of ICID.

### Inter-Governmental Panel on Climate Change (IPCC)

The assessment reports of IPCC normally consist of full scientific, technical and socio-economic assessment reports of IPCC Working Groups and their summaries for policy makers. The 3<sup>rd</sup> Assessment Report of IPCC was prepared in 2001, while the 4<sup>th</sup> Report will be completed in 2007. The technical report on 'Climate Change and Water' is planned for release in late 2007 after the approval of Assessment Report-4. The paper will address issues involving climate changes and water in the context of interlinkages with Agenda 21, WEHAB and the World Water Conference and global environmental change issues. It will also describe the boundary conditions observed and projected change in climatic and socio-economic and environmental conditions. The linkage of climate changes with water resources will provide assessment of implications of climate change and climate change policies for water resources and how they could affect the vulnerability of socio-economic and environmental systems to climate change. It will also assess the implications of changes in water resources on climate change and climate change policies as well as synergize with tradeoffs for achieving climate change and water management objectives. The regional implications of climate change and water resources interlinkage will be analyzed for Africa, Asia, Latin America, North America, Europe, Australia and

New Zealand and other regions. This paper is expected to be of interest to the new ICID Working Group on Global Climate Change and Irrigation (WG-CLIMATE).

### Food and Agriculture Organization of the United Nations (FAO)

ICID has close cooperation with FAO. It is represented at various meetings and sessions of FAO as far as possible. The 28<sup>th</sup> FAO Regional Conference for the Near-East was held in Sana'a, Republic of Yemen, from 12-16 March 2006, to which ICID was invited. Mr. Abdulkareem M. Alghamdi, Director-General of General Administration for Irrigation Affairs, Ministry of Agriculture, Saudi Arabia represented ICID at the meeting, which deliberated on the Drought Mitigation Strategies in the Near East Region. FAO recommended to focus on water demand management approach, to consider efficiency of water use as the basis for drought mitigation, to increase investment in agricultural research, to develop drought and salt tolerant varieties, improve water use efficiency, and increase crop production under water shortage conditions.

### UN Convention to Combat Desertification (UNCCD)

The documents of UNCCD are of interest to ICID. The Year 2006 has been declared as International Year of Deserts and Desertification. 2006 International Year of Deserts and Desertification presents a golden opportunity to get the message across effectively that Desertification is a global problem. It also provides an impulse to strengthen the visibility of the drylands on the international environmental agenda.

### World Meteorological Organization (WMO)

Prof. Sue Walker of South African National Committee (SANCID) represented ICID at the 14<sup>th</sup> Session of the Commission for Atmospheric Sciences (CAS) of WMO held at Cape Town, South Africa, from 16 to 24 February 2006. The CAS meeting was preceded by a scientific meeting of THORPEX, which is a World Weather Research Programme for Global atmospheric research that was established in 2003. WMO has also established a Natural Disaster Prevention and Mitigation (DPM) Programme so as to develop and coordinate the natural disaster reduction activities at the international, regional and national levels. This will include monitoring of hazards in real time so as to disseminate relevant information and to develop new early warning systems for hazards that have not been adequately covered in the past.

WMO sought ICID support to prepare a theme paper on "**Risk Management**" for the 4<sup>th</sup> World Water Forum. They were provided necessary assistance in regard to the sub-themes on floods and drought management. In addition to the material supplied by WG-CAFM and WG-IADWS, the Central Office assembled the

impressions from various National Committees and consolidated them provided inputs to WMO to finalize its theme document. Vice President Hon. Saeed Nairizi, Chairman, WG-IADWS assisted as one of the panelist to moderate the Session on **FT 5.11: Managing Drought Risks – Role of Improved Preparedness and Management.**

WMO also approached ICID to represent the Users' interest in Hydrological Ensemble Prediction Experiment (HEPEX) Workshop that was held in July 2005 in Colorado, USA at short notice. Secretary General, ICID participated in this workshop and provided a brief to WMO and its proceedings. The workshop aimed to bring international hydrological and meteorological communities together to demonstrate as to how reliable hydrological ensemble forecasts can help and facilitate forecast and assessments relating to agriculture, public health & safety, economy and environment.

WMO invited ICID to join in their efforts to prepare a document "*Manual on Flood Mapping*". ICID nominated Ir. Dick de Bruin, Chairman, WG-CAFM, to be its representative in this project.

### International Water-related Associations' Liaison Committee (IWALC)

With the IWALC activities having been on a low-key after 3<sup>rd</sup> World Water Forum in Kyoto in March 2003, efforts were made by Secretary General, ICID, who is also acting as Secretary, IWALC to revive the activities of the Liaison Committee. During the 12<sup>th</sup> World Water Congress organized by IWRA in November 2005 in New Delhi, India, a meeting of IWALC was convened in which President Hon. Aly Shady (President, IWRA), Mr. Peter S. Lee (President, ICID), Dr. Benedict Dziegielewski (Executive Director, IWRA), Dr. C.D. Thatte (Secretary General Hon., ICID) and Mr. M. Gopalakrishnan (Secretary General, ICID) were present. The meeting discussed various matters including: the activities of IWALC from Kyoto to Mexico, proposal for a paper on 'Cross-cutting perspective Theme on Application of Science, Technology and Knowledge', steps towards strengthening IWALC through coordinated actions and possible approach to the Mega Session on Water Infrastructure by IWRA in coordination with other water-related organizations, including ICID.

Another meeting of IWALC was held on 18 March 2006 during WWF-4 in Mexico. Although inconclusively, the meeting discussed inter-alia update on Science and Technology Panel of WWC, update on Bluelines Initiative, update on 'Role of Water Infrastructure Initiative of President Hon. Aly Shady, President, IWRA and role of water associations on their coordinated activities. While Secretary General Gopalakrishnan pointed out that IWALC did not have a Constitution and membership regulations, and the need for framing up of a constitution and membership regulations for IWALC, President Lee

brought out the issue of the events of different water-related organizations being planned such as to avoid clashes. President Lee proposed to evolve an appropriate guideline for holding events. A suggestion that the composition of IWALC could be revised emerged. In the next meeting which could be organized in sideline with the Stockholm Water Symposium in August 2006, this will be one of the issues.

Other participants of the well-attended Mexico meeting were IAHR, IAH, IWA, ICOLD, IWRA, WMO, IHA, IAHS, ICID, IWHA and IHP.

### **International Network for Water and Ecosystem in Paddy Fields (INWEPF)**

For studying the diversified role of irrigation water, the Ministry of Agriculture, Forestry and Fisheries of Japan (MAFF) established an International Network on Water and Ecosystems in Paddy Fields (INWEPF). Aim of INWEPF is to promote a network for research and effective dialogue using the experiences concerning paddy field systems.

During the 12<sup>th</sup> meeting of the Asian Regional Working Group (ASRWG) of ICID held at Beijing, China in September 2005, Mr. Nakajo, Deputy Director General of MAFF of Japan explained the initiative of the Japanese Government on INWEPF in collaborating efforts with ICID ASRWG towards WWF-4. He stressed the importance of conserving paddy farming in Asia and sent messages to the world in general during the 4<sup>th</sup> WWF. Accordingly, the ASRWG in collaboration of INWEPF organized an exclusive session on "Sustainable paddy water use and its multi-functionality with better governance". The topic was covered under the framework of the Theme on "Water Management for Food and the Environment".

The INWEPF Second Steering Meeting and Symposium on Water and Environment in Paddy Fields were held on 2-4 November 2005 in Seoul, Korea. Mr. Myung-Soo, Lee, Vice minister of Ministry of Agriculture and Forestry, Korea gave a welcome message while Mr. Keizrul bin Abdullah, President Hon., ICID from Malaysia and Mr. Va-son Boonkid, Chief Engineer of Royal Irrigation Department from Thailand made keynote Speeches.

The delegates from 14 countries and 6 international organizations participated in the symposium. In the Steering Meeting, it was also decided that Malaysian National Committee of ICID will host the 3rd steering meeting in 2006 in Kuala Lumpur, Malaysia.

### **United Nations Educational, Scientific and Cultural Organization – (UNESCO-IHE)**

UNESCO-IHE Institute for Water Education is instrumental to the strengthening of efforts by other universities and research centres in increasing knowledge and skills of professionals working in the

water sector. The 190 Member States of UNESCO will have access to the knowledge and services of UNESCO-IHE in human and institutional capacity-building, which is vital to their efforts in the achievement of Millennium Development Goals and other global water objectives.

During the 10<sup>th</sup> meeting of the Working Group on Capacity Building, Training and Education (WG-CBTE) of ICID held at Beijing, China, it was felt that UNESCO-IHE's representation on the WG-CBTE of ICID would be mutually beneficial. Keeping this in view, ICID offered an invitation to UNESCO-IHE to become a permanent observer on the ICID's Working Group. UNESCO accordingly, accepted the ICID offer and nominated Dr. Laszlo G. Hayde (Hungary) as a permanent observer to the WG-CBTE meeting.

### **Third World Center for Water Management**

Prof. Asit K. Biswas, President & Academician, Third World Center for Water Management, Mexico visited ICID Central Office during the occasion when the 12<sup>th</sup> World Water Congress of IWRA was organized in New Delhi. Prof. Biswas explored possible cooperation with Third World Centre for Water Management who has been engaged by Spanish Government to develop an International Water Centre in Zaragoza. He also joined the occasion with the high-level ministerial / official Spanish delegation, who paid a visit to ICID Central Office to hold discussions on this subject.



*President Lee with Prof. Biswas*

### **High-level Ministerial / Official Spanish Delegation Visits ICID Central Office**

A Spanish Delegation led by H.E. Alfredo Bone Pueyo, Hon'ble Minister of Environment for Aragon, Spain visited ICID Central Office on 21 November 2005. He was accompanied by Prof. Asit K. Biswas, President, Third World Center for Water Management, Mexico, among other dignitaries.

President Peter S. Lee and Secretary General M. Gopalakrishnan, Vice Presidents Victor A. Dukhovny (Uzbekistan) and R. Jeyaseelan (India) were present on the occasion. President Hon. Aly M. Shady; Vice Presidents Hon. Pritam Singh and Ramesh Chandra; Secretary General Hon. R.S. Varshney and C.D. Thatte were other office bearers who could also join the special occasion.



A view of the meeting



President Hon. Aly Shady, Vice President Dukhovny and Secretary General Gopalakrishnan with Ministers

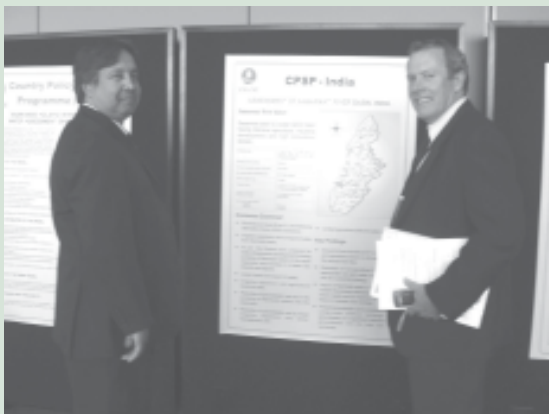
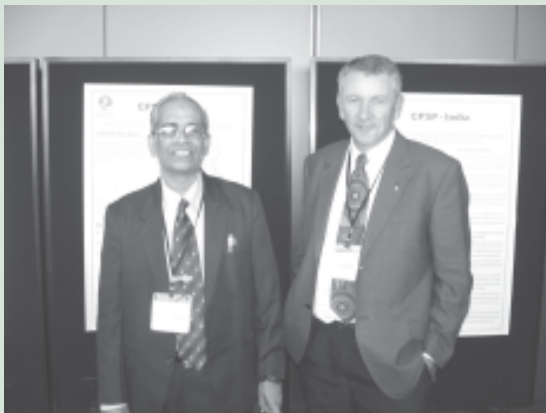
Secretary General M. Gopalakrishnan briefed on ICID and its activities to the visitors. For more details on this, refer to page 70.

### Central Asian Ministers Visit ICID Central Office

The Central Asian delegation led by Vice President Prof. Victor A. Dukhovny visited ICID Central Office on 26 November 2005. The delegation included Mr. Anvar Zairov, Ministry of Land Reclamation and Water Resources (Tajikistan); Mr. Salimjon Dusmatov, Ministry of Agriculture (Uzbekistan); Mr. Begench

Mommodov, Ministry of Water Resources (Turkmenistan); Mr. Esen Jusumatov (Kyrgyzstan); Mr. Amirkhan Kenshimov (Kazakhstan) and Ms. Oygun Usmanova (Uzbekistan). President Hon. Aly M. Shady graced the occasion. President Hon. Shady encouraged the young Ministers to come foreword and face the challenges in today's era of globalization where countries are inter-dependent. Vice President Dukhovny informed the fellow Ministers that ICID offers a platform for all including Central Asian Countries in transition to voice their difficulties and seek solutions. More details can be seen from page 71.

## CPSP Posters Presentation at OECD Workshop



### Country Policy Support Programme (CPSP)

#### WHAT IS CPSP?

The objective of the Country Policy Support Programme (CPSP) is to contribute to develop effective options for water resources development and management to achieve an acceptable food security level and sustainable rural development. It aims at assessing water needs for three sectors viz. food, people, and nature and at evolving different future scenarios for 2025, which can integrate these needs in an acceptable way. In this process highlight the necessary policy interventions.

The CPSP was launched by ICID in 2002 with a funding support from the Government of The Netherlands.

#### WHICH ARE THE PARTICIPATING COUNTRIES?

CPSP in its 1<sup>st</sup> phase (2002 to 2005) has carried out a detailed assessment in two countries viz. China and India and to a lesser scale in Egypt, Mexico and Pakistan. The programme is executed by respective National Committees of these five countries viz. CNCID (China), INCID (India), ENCID (Egypt), MXCID (Mexico), and PANCID (Pakistan) in coordination with the Central Office, New Delhi.

#### WHICH ARE THE CONTRIBUTING/ PARTICIPATING ORGANISATIONS?

##### Contributing organisations

- International Water Management Institute (IWMI),
- International Food Policy Research Institute (IFPRI),
- Food and Agriculture Organization (FAO),
- International Programme for Technology and Research in Irrigation and Drainage (IPTRID), and
- The World Bank

##### Participating Organisations

- Global Water Partnership (GWP)
- International Federation of Agricultural Producers (IFAP)

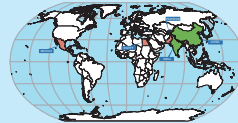
- The World Conservation Union (IUCN)
- United Nations Environment Programme (UNEP)
- World Health Organization (WHO)
- World Water Council (WWC)
- World Wildlife Fund for Nature (WWF)

#### WHAT ARE THE KEY ACTIVITIES?

- Compilation and updating of available knowledge base (KB) for three sectors i.e. water for food, people and nature,
- Assessment of water needs of food, people and nature (both terrestrial and aquatic) sectors - through modelling approach in representative river basins of participating countries,
- Workshops and broad-based multi-stakeholder consultations at the respective basin and national level,
- Up-gradation and integration of IWMI's PODIUM and IFPRI's IMPACT (WATERSIM) models for use in China and India.
- Consultations with concerned ministries of Governments of China and India.
- Broad-based initial consultations in Egypt, Mexico and Pakistan, and
- Briefing meetings with funding agencies such as World Bank, ADB and others.

#### WHAT ARE THE OUTCOMES?

- Improved "knowledge base" on major aspects of integrated water resources development and management (IWRDM) for appropriate policy support;
- An improved understanding of the water sector issues in China and India;
- A land use based "Basin-wide Holistic Integrated Water resource Assessment" model- the **BHIWA** model, which accommodates water needs all the three sectors - food, people and eco-system;
- Improved/ upgraded country specific **PODIUM (PODIUMSim)** for its application at basin/ national level in India and China;
- A report on application of WATERSIM for India; and
- National Consultation reports for China and India and preliminary reports in respect of Egypt, Mexico and Pakistan.



# World Water Day Celebrations

The United Nations General Assembly adopted a resolution (A/RES/47/93) on 22nd December 1992 by which 22 March of every year was declared as World Day for Water, to be observed starting from the year 1993 onwards. The international observance of the 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 organizing their activities. In the past years, the WWD celebrated with the following themes :

- 1994 : Caring for Water Resources is Everybody's Business
- 1995 : Women & Water
- 1996 : Water for Thirsty Cities
- 1997 : World's Water – Is There Enough?
- 1998 : Ground Water – The Invisible Resource
- 1999 : Everyone Lives Downstream
- 2000 : Water for the Twenty-First Century
- 2001 : Water and Health
- 2002 : Water for Development
- 2003 : Water for Future
- 2004 : Water and Disasters

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, the World Water Day (WWD) of 2005. The time has come to take an oath to conserve water and contribute towards **“An International Decade for Action: Water for Life”**.

Water in today's context is a critical natural resource on the earth because of inadequate development, management, competing demands, population growth, wastage and degradation due to pollutants. The United Nations Organization (UNO), therefore, decided to focus attention of the world community on the importance, need and urgency of preserving the quality and augmenting the quantity of water available in all places.

As ICID is one of the water-related international organizations, which supported in December 1992 the

proposal for observance of the WWD under the auspicious of the United Nations, various National Committees of ICID celebrated the WWD in 2005 with the theme “Water for Life”.

## ANCID (Australia)

The highlight of Australian National Committee of ICID (ANCID) on the World Water Day of 2005 was that two projects out of the five that the ANCID had been 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 also presented during the World Water Day program. This showcase presented 12 innovators. The booklet contributed during the occasion can be downloaded from <http://www.nht.gov.au/publications/irrigation-brochure/index.html>.

## BANCID (Bangladesh)

On the occasion of the World Water Day on 22 March, 2005, a Seminar was organized by Bangladesh National Committee of International Commission on Irrigation and Drainage (BANCID) at Bangladesh University of Engineering and Technology (BUET) in association with Bangladesh Water Development Board (BWDB). 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 at national and regional levels. About 200 participants comprising eminent experts, academicians and scientists from different organizations and students from BUET attended the function.

## CNCID (China)

Ministry of Water Resources, China organized a symposium to celebrate the 13<sup>th</sup> “World Water Day” and 18<sup>th</sup> “China Water Week” in Beijing on the topic



*A view of the event*

“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 conservancy construction. The Minister emphasized the future task in water resources, namely, for (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 Vice Minister of Water Resources, Mr. Zhai Haohui made a keynote presentation while Mr. Jing Zhenshu presided the Symposium. The symposium was attended by more than 50 professionals, managers and experts from the related government agencies and institutes.

### ENCID (Egypt)

The World Water Day (WWD) was celebrated under the auspices presence of Mrs. Suzan Mubarak, First Lady of Egypt by Egyptian Water Partnership and the Ministry of Water Resources and Irrigation in coordination with other organizations, namely, UNDP, UNESCO, CEDARE, NGOs and ENCID. An opening ceremony for the National Campaign on Water Awareness for children in Egypt was also organized.

H.E. Dr. Mahmoud Abu Zeid, Minister of Water Resources and Irrigation, H.E. Dr. Ahmed El-Leithy, Minister of Agriculture and Land Reclamation and H.E. Eng. Maged George, Minister of Environment along with more than 350 professionals attended the celebration. H.E. Dr. Abu Zeid emphasized on the importance of creating children’s awareness on the value of each drop of water and protection of water



*H.E. Dr. Abu Zeid with other dignitaries*

from pollution. During the celebration, children performed a play and a song for encouraging the people to conserve water. There were exhibitions for showing the drawings on “water issues” prepared by the school children and awareness materials like education books etc. Children were awarded for best drawings.

Another celebration was also held by the Ministry of Water Resources and Irrigation in coordination with Egyptian Committee for Hydrology, ENCID and other stakeholders, where awards were given to experts and researchers in the field of water and environmental conservation.

### INCID (India)

World Water Day–2005 was celebrated on 22nd March, 2005 at Vigyan Bhawan, New Delhi. 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. Shila 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 besides prominent water experts participated in the function.



*A view of the event*

The Hon’ble Water Resources Minister highlighted the difficulties in managing the global water resources and informed 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 the sixth of world’s population. He called for judicious use 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 to come out with solutions, the Minister announced the 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 projecting best research story on water.

During this function, the 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.

### MANCID (Malaysia)

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 President, 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 understanding of water resources and water



*President Hon. Keizrul bin Abdullah addressing the session*

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 scientist from different organizations and students from local universities attended the conference.

### NETHCID (The Netherlands)

The Netherlands National Committee of ICID (NETHCID) organized The NETHCID Symposia on 13 April 2005

to mark the importance of the World water Day celebration of the year 2005. The topic of the Symposia was "Impact of climate change on water management". The Symposia was organized by Delft Hydraulics.

### PANCID (Pakistan)

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 concerns 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.



*A view of the event*

In addition to PANCID, the Association for Water, Applied Education and Renewable Energy (AWARE), Faculty of Agricultural Engineering, Sindh Agriculture University, Tando Jam, Pakistan, and Drainage Research Centre, Tando Jam, Pakistan Council of Research in Water Resources (PCRWR), also celebrated World Water Day separately on 22 March 2005.

### PNC-ICID (Philippines)

Philippine National Committee of ICID (PNC-ICID) co-sponsored the World Water Day 2005 Symposium with the theme "Water for Life" and organized for highlighting the observance of the World Water Day in Philippines. Representatives from national government agencies, non-government organizations, academia, foreign institutions and private sectors participated in the Symposium.

Papers were presented on the topics: Mainstreaming IWRM, Replicating IWRM, Considerations and Lessons Learned, Domestic Water Supply and Sanitation, Water Demand Management, Industrial Use of Water, Water Saving through Sustainable System of Irrigated Agriculture. The proposed revised implementing rules and regulations of the Water Code of the Philippines were also discussed. The status of the action plans on the agreement during the 2004 National Water Forum was presented.

The other activities that were included during the Water Week celebrations from 16-31 March 2005 were a

National Dialogue Forum on “IWRM and Water Financing Challenges”, a forum, lectures, and exhibitions. The program was attended by various stakeholders of water.

### SKNC-ICID (Slovak)

As a part of the World Water Day celebrations, the representatives of 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 also used for the 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. A press conference was also held to stress on the importance of the World Water Day, actual problems in water management as well as water protection in Slovakia.

### SLNICID (Sri Lanka)

Sri Lanka National Committee of ICID (SLNICID) organized one day seminar on 22<sup>nd</sup> of 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 bench

marking 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.

### THAICID (Thailand)

Thailand National Committee of ICID (THAICID) observed the World Water Day with the global theme “Water for Life”. The main activities organized were: (i) publication of ICID.CIID posters, stickers, wordpad and distribution of same to the members of THAICID and other agencies inside and outside of Royal Irrigation Department and (ii) an exhibition on World Water Day at the Royal Irrigation Department on 22<sup>nd</sup> March 2005.

### TUCID (Turkey)

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 Dr. Hilmi Guler, the Minister of Energy and Natural Resources and attended by many deputies, ambassadors, Director General Prof. Dr. Veysel Eroglu and staff of State Hydraulic Works. After the opening ceremony, a documentary film on “Water for Life” prepared by the State Hydraulic Works was presented. Minister Guler in his opening speech, stated that water and environment are the topics given special



*A view of the event*

emphasis in the world today and mentioned that as a result of showing no respect to the environment, disasters like floods and tsunami occurred. He concluded by saying that this problem needs to be addressed not only at national but also at international levels.

ICID has a permanent secretariat, called the Central Office, which is located in the Commission's headquarters building in New Delhi, India. The Central Office staff works under the overall supervision of the Secretary-General, ICID.

## 1. ICID Central Office Staff Strength as on 31 March 2006

The Central Office has total sanctioned staff strength of 28 of which 22 staff members were in position at the end of March 2006, including the following professional staff:

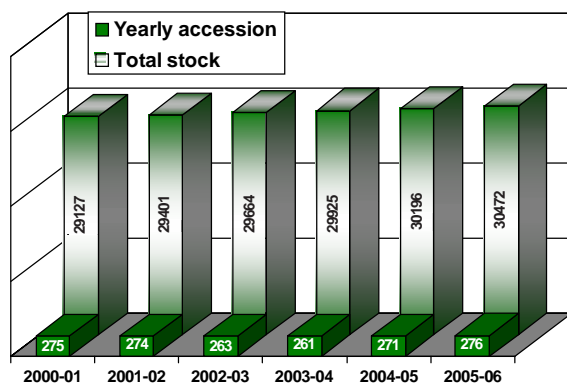
1. Mr. K.N. Sharma, Secretary
2. Dr. S.A. Kulkarni, Director (I)
3. Dr. V.K. Labhsetwar, Director (II)
4. Mrs. Jancy Vijayan, Joint Director

The professionals of the Central Office were assisted by 14 support and 4 service staff. Six of the sanctioned posts were kept unfilled for effectively controlling expenditure during the period 2005-06. The resulting work was distributed amongst the current staff. The work distribution amongst the Central Office professionals is given on page 65.

## 2. Technical Library

The Central Office library houses nearly 30500 technical books and receives 65 periodicals. It is widely consulted by many experts and others with interest on water related issues.

**(i) Additions to Library Books:** With the acquisitions of 276 new books, the Library has acquired 30472 technical reference materials as on 31 March 2006.



Central Office library holdings

**(ii) Cooperation between ICID and IWMI Libraries:** ICID and IWMI libraries continue to exchange the list of new additions of their library databases in accordance

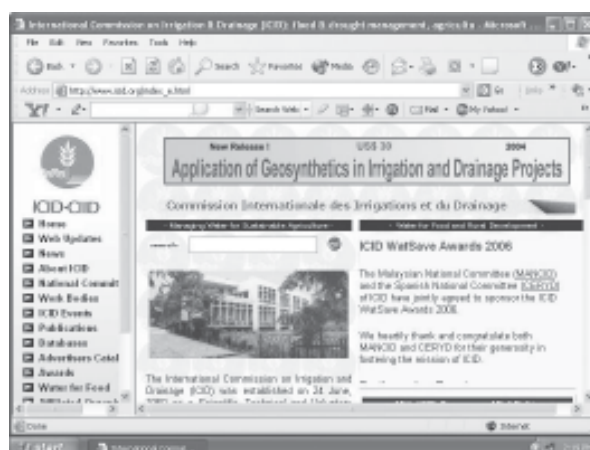
with the Memorandum of Understanding between the two organizations.

**(iii) Linkages with National and International Networks:** Presently, the ICID library is using the E-mail facility for linkages with national and international institutions for an exchange of database. In addition to the existing arrangement with the IWMI library, the ICID Central Library has established contacts with the IPTRID Central Network Stations at HR Wallingford, UK and ILRI, Wageningen, The Netherlands, and the India Country Network on Irrigation and Drainage (INRID) at Pune.

**(iv) Other facilities available:** In addition to these facilities, the Library keeps about 737 colour slides on various issues of interest and concern to ICID. The clippings covering the important developments in the irrigation and related sectors both within the country as well as internationally are also added. A video library (collection of about 46 cassettes) on the aspects of development, operation and maintenance of irrigation works is an added attraction.

## 3. Website





ICID is maintaining its own website that can be accessed at: <http://www.icid.org> The Website furnishes information regarding ICID's objectives and aims, organizational setup, membership, international cooperation, information exchange, new initiatives, publications and price lists, forthcoming events etc. The most recent issues of the monthly News Update, quarterly Newsletters, and Text Delivery Services (TDS) can be accessed in the website, which is updated on a regular basis.



About 20 work bodies have established individual web pages for projecting their activities through ICID website. The web page provides the list of members, agenda

# Allocation of ICID Work and Workbodies Amongst Professional Staff

(As on 31 March 2006)

 <b>Secretary</b> K.N. Sharma	 <b>Director I</b> S.A. Kulkarni	 <b>Director II</b> V.K. Labhsetwar	 <b>Joint Director</b> Mrs. Jancy Vijayan
<ul style="list-style-type: none"> <li>• IEC and Membership</li> <li>• Management Board</li> <li>• Staff Committee</li> <li>• Office Bearers Committee</li> <li>• Administration</li> <li>• Accounts</li> <li>• Directory/Mailing List</li> <li>• ICID Website/Text Delivery Service</li> <li>• UNESCO/WALC</li> <li>• Plaques to OBs, Chairs, WatSave Awards</li> <li>• WWF 4</li> <li>• TF-EIF</li> <li>• ICID External and Internal Reviews</li> <li>• CG and MCIPTRID</li> <li>• Court Case</li> <li>• Strategy Themes</li> </ul> <p><b>Work Bodies</b></p> <ul style="list-style-type: none"> <li>• PCTA</li> <li>• PCSPOA</li> <li>• PFC</li> <li>• WG-CD</li> </ul>	<ul style="list-style-type: none"> <li>• Maintenance of Office Equipment/ACs/Telephones</li> <li>• Sale of Publications</li> <li>• Paper Procurement/Printing</li> <li>• Photocopier</li> <li>• Newsletter</li> <li>• WatSave Awards</li> <li>• MMI</li> <li>• ISO (TC 23, 190, Crops/BIS)</li> <li>• CPSP-I (concluding work)</li> <li>• Africa Region</li> </ul> <p><b>Work Bodies</b></p> <ul style="list-style-type: none"> <li>• WG-DMIS</li> <li>• WG-DRG</li> <li>• WG-PQW</li> <li>• WG-ON-FARM</li> <li>• WG-SOCIO</li> <li>• WG-WATS</li> <li>• WG-CLIMATE</li> <li>• ST-LCB</li> <li>• AFRWG</li> </ul>	<ul style="list-style-type: none"> <li>• CO Premises/Garden</li> <li>• Maintenance of Vehicles</li> <li>• CO Security</li> <li>• Congresses</li> <li>• ICID Journal</li> <li>• Bibliography</li> <li>• Americas and European Region</li> <li>• News Update</li> </ul> <p><b>Work Bodies</b></p> <ul style="list-style-type: none"> <li>• C-CONGR</li> <li>• EB-JOUR</li> <li>• WG-CROP</li> <li>• WG-IADWS</li> <li>• WG-CAFM</li> <li>• WG-ILWRM</li> <li>• WG-SDTA</li> <li>• AMRWG</li> <li>• ERWG</li> </ul>	<ul style="list-style-type: none"> <li>• World Water Day</li> <li>• Annual Report</li> <li>• Protocol &amp; Liaison with ICID</li> <li>• Library</li> <li>• FAO</li> <li>• WWC/GWP</li> <li>• ECOSOC/UNCSD</li> <li>• ICID Day</li> <li>• N.D. Gulhati Lecture</li> <li>• TF-IBWT &amp; Maps</li> <li>• Asia Region</li> </ul> <p><b>Work Bodies</b></p> <ul style="list-style-type: none"> <li>• C-PR&amp;P</li> <li>• AC-IPTRID</li> <li>• WG-R&amp;D</li> <li>• WG-ENV</li> <li>• WG-YPF</li> <li>• WG-CBTE</li> <li>• WG-HIST</li> <li>• ST-ARAL</li> <li>• ASRWG</li> </ul>
 <p>Mr. S.P. Goyal, Joint Secretary, ICID after rendering a creditable service for nearly two decades relinquished his services in the Central Office on 31 October 2005. The Central Office gathered to felicitate him on the eve of his retirement.</p>			

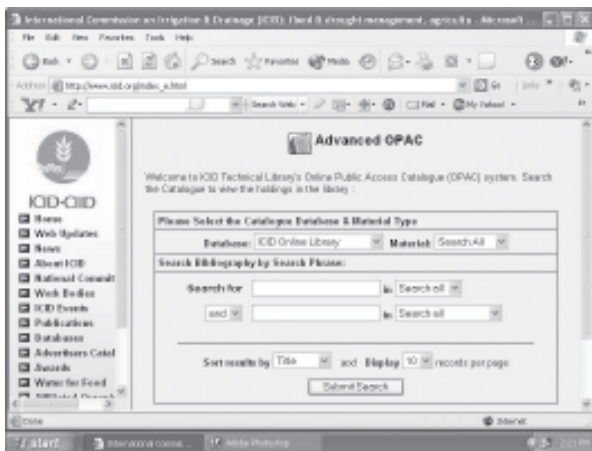
of the present and past meetings, list of past publications and publications in pipeline, announcements of workshops, seminars etc.

The Central Office has hired additional space on a server and registered a domain name [www.icid.online.org](http://www.icid.online.org) through which the work bodies can directly access respective web pages. A file transfer protocol (FTP) is made available to the Chair of the

work bodies; they have a free hand to upload and amend any information related to their work bodies.

#### 4. Text Delivery Service (TDS)

The 'Text Delivery Service' (TDS) was launched by the ICID in August 2001, through its Website: <http://www.icid.org>. The Service provides grey literature in electronic format. The objective of the Text Delivery



Service is to facilitate exchange of information on irrigation and drainage related literature amongst all professionals at large, including IPTRID Network Countries and ICID members. The ICID Library Catalogue is also available in electronic format for online searching through keywords, name of author, and title, etc. under 'Book' section. The available grey literature is listed under 'Article Section' with the above underlined search keys. Complete documents wherever available can be viewed/downloaded through resources available link at the end of the search record details. The Central Office disseminates the latest update of the TDS database through the monthly News Updates.

At present, the database contains 30472 records under "Book Section" and 5282 records under "Article Section". Out of the total records entry, 276 and 792 records were entered during the period from 1 April 2005 to 31 March 2006 respectively under "Book Section" and "Article Section". Readers are encouraged to access the TDS database by visiting ICID Website.

## 5. ICID Publications

**(i) Journal of ICID:** Over the years, the Journal of the ICID on "Irrigation and Drainage" has developed as a prestigious peer reviewed publication and enables the Commission to accomplish its objectives of publishing original papers on scientific engineering and socio-economic issues associated with irrigation, drainage and flood control by emphasizing the need of conserving and managing water resources for a sustainable development. From April 2005 to March 2006, five issues of the Journal were published on time. In addition to the third issue a Special Issue on Wastewater Irrigation has been published. This Special Issue was a sponsored issue, which has been prepared in close cooperation with IWMI, IWA and Wageningen University. In total 123 authors have published their papers in the 2005 issues, originating from 29 countries/committees.

For each issue, Central Office has submitted two pages with information on ICID.

**(ii) ICID Publications - Regular and Special:** The main ICID publications which were brought out during

the period 2005-2006 under regular categories were – (i) Four quarterly issues of ICID Newsletters, (ii) 12 issues of monthly ICID News Updates, (iii) Annual Report for the period 1 April 2004 to 31 March 2005, (iv) Updated version of ICID Directory and (v) Transactions volumes of 19<sup>th</sup> ICID Congress on Irrigation and Drainage, Beijing, China, 2005 on the Theme "Use of Water and Land for Food and Security and Environmental Sustainability" in the form of Abstracts (Vols. – 1A& 1B) and General Report (1C, 1D and CD-ROM). In addition to the regular publications, the other special documents released by CO, ICID during the period from 1 April 2005 to 31 March 2006 were:

### (A) Planning and Designing of Micro Irrigation in Humid Regions:

ICID Central Office brought out a new publication titled "Planning and Designing of Micro Irrigation in Humid Designs" in 2005. The book is authored by Prof. M. Kuroda, Member of the ICID Working Group on On-Farm Irrigation Systems and was released at the 19<sup>th</sup> ICID Congress held at Beijing, China.

The publication deals with all aspects of micro irrigation system like planning and design taking into consideration the special characteristics viz., climate, crops, farming systems and cropping patterns, etc. pertaining to the project area. It summarizes information about 'on-farm micro irrigation' from published manuals and guidelines dealing with upland irrigation in Japan, with particular reference to humid areas. It provides information on computation of consumptive use/crop water requirements in humid climate and different layouts of micro irrigation with special reference to Japanese situation.

For demonstrative purposes, the author has provided a detailed mathematical analysis of planning and designing of a farm pond. The cost of the Book is US\$ 10 for National Committees and its members. Place your order Secretary, ICID (E-mail: [icid@icid.org](mailto:icid@icid.org)).

### (B) Publications on Country Policy Support Program (CPSP)

ICID, since 2002 has been carrying out a study "Country Policy Support Programme (CPSP)" with the funding support from The Govt. of Netherlands. The phase-I of the programme was successfully completed in December 2005. A brief background, key components, and activities carried out during the year 2005 are as follows.

#### Background

The Country Policy Support Programme (CPSP) was aimed to offer effective options for water management to achieve an acceptable food security and sustainable rural development in five member countries of ICID viz. China, Egypt, India, Mexico and Pakistan. The CPSP was undertaken in co-operation with International Water



Management Institute (IWMI), International Food Policy Research Institute (IFPRI), Food and Agriculture Organization (FAO), International Programme for Technology and Research in Irrigation and Drainage (IPTRID), and The World Bank who made specific contributions.

The key components of the CPSP were as follows:

- Detailed assessments in representative river basins in China and India and preliminary studies in Egypt, Mexico and Pakistan for integrating of water needs for the three sectors viz. food, people and nature,
- Broad-based consultations on the basis of existing and fresh assessments in the participating countries at basin and national levels,
- Preparing reports based on these consultations to serve as a basis for country specific policies and strategies for rural development, food security, and environmental sustainability, and
- Up gradation and integration of IWMI's PODIUM and IFPRI's IMPACT models for use in China and India.

Major activities carried out during 2005 were:

- A Special Session to present the final outcome of the studies in India and China and of the preliminary studies conducted in Egypt, Mexico and Pakistan was held on 11-12 September 2005 at Beijing on the occasion of 56<sup>th</sup> IEC/ 19<sup>th</sup> ICID Congress. Representatives from five participating countries, member countries of ICID and international organizations attended the session.
- Mexican National Committee (MXCID) organized a 'National Consultation' in August 2005, in collaboration with National Water Commission, Ministry of Agriculture, Rural Development, Fishing and Nourishment, Ministry of Environment and Natural Resources, Mexico. The outcome of the consultation was included in the CPSP Report 9.
- Pakistan National Committee (PANCID) organized a broad based 'National Consultation' with involvement of stakeholders from different disciplines, national and international

organisations at Lahore in July 2005. The outcome of the consultation was included in the CPSP Report 8.

- Final version of the reports pertaining to CPSP studies in China, India, Egypt, Mexico and Pakistan were brought in hard copies for worldwide dissemination.
- CD ROMs of BHIWA model (both EXCEL and VB version) were prepared for dissemination at the Beijing Congress.
- CPSP studies were publicised through ICID's News Update, Newsletter, Website, and Text Delivery Service (TDS) from time to time.
- A draft report highlighting the issues and strategies for irrigation and drainage sector in India has been prepared.
- Further dissemination of CPSP outcome through IPTRID's WCA InfoNet/GRID was tied up.

### Reports prepared, presentations made and papers published under CPSP

Following reports were prepared and papers presented at various international forums:

#### (a) Final Reports (in hard copies)

1. Water Resources Assessment of Sabarmati River Basin, August 2005
2. Water Resources Assessment of Brahmani River Basin, August 2005
3. Water Policy Issues of India, August 2005
4. Water Resources Assessment of Jiaodong Peninsula Basin, August 2005
5. Water Resources Assessment of Qiantang River Basin, August 2005



6. Water Policy Issues of China, August 2005
7. Water Policy Issues of Egypt, December 2005
8. Water Assessment of Nari River Basin and

Water Policy Issues of Pakistan, December 2005

9. Water Policy Issues of Mexico, December 2005, and
10. Spatial Variations in Water Supply and Demand Across River Basins of India, Research Report 83, IWMI, Sri Lanka, 2005

*(b) Draft Reports*

Draft reports on 'Policy Dialogue Simulation Model' (PODIUMSIM) and 'Water, Agriculture, Technology, Environment and Resource Simulation Model' (WATERSIM), were prepared by the International Water Management Institute (IWMI), as an IWMI/IFPRI component of the CPSP. These reports were posted on the CPSP web pages.

*(c) Presentations*

Secretary General, ICID made presentations at the following international forums with an objective of disseminating the key CPSP messages among different stakeholders.

- Comprehensive Assessment: Management of Water for Agriculture and Ecosystems, Montpellier, France, 4-5 June 2005
- Special Session on CPSP, Beijing, China, 11-12 September 2005, ICID's 56<sup>th</sup> IEC/ 19<sup>th</sup> Congress.
- OECD Water Workshop, Adelaide, Australia, 13-20 November 2005.

The CPSP outcome formed part of an inscription by ICID under the "Local Actions for a Global Challenge". The Sabarmati river basin case study from India as submitted by ICID was listed as one of the Local Action vide ID: LA0114.

*(d) Technical Paper publications*

- M. Gopalakrishnan, A.D.Mohile, L.N.Gupta, R.Kuberan and S.A.Kulkarni: An Integrated Water Assessment Model for Supporting India Water Policy, Paper published in Irrigation and drainage, The Journal of the ICID, Vol. 55, No.1, 33-50 pp.
- Pandey J. S and S. Devotta: Assessment of Environmental Water Demands (EWD) of Forests for Two Distinct Indian Ecosystems, published in Environmental Management, Springer Science + Business Media, Inc. 2005

**CPSP Web Pages**

Various draft reports, outcome of the various consultations, workshops and special sessions and

other information of interest were uploaded on the CPSP web page <<http://www.icid.org/cpsp.html>>. All the final reports, BHIWA and PODIUMSIM models are available for free download at the web pages.

**(C) Proceedings of the International Workshop on Multiple Roles on Diversity of Irrigation Water**

In the wake of the 3<sup>rd</sup> World Water Forum held in 2003, the Asian Regional Working Group of the International Commission on Irrigation and Drainage (ASRWG) established a Work Team for Studying Multiple/Diversified Roles of Irrigation Water at the 54<sup>th</sup> International Executive Council meeting in Montpellier, France, in 2003. The objectives of the Work Team were to synthesize country/institutional-wise experiences for understanding and analyzing the issues on "Multiple Roles on Diversity of Irrigation Water" (positive and negative) in Asian Regional context especially for paddy field irrigation and prepare a document for WWF-4 in March 2006 in Mexico and the 3<sup>rd</sup> Asian Regional Conference in September 2006 in Malaysia. The major tasks covered under the analysis and study were:

- Mechanism of multiple role manifestation (Primary environment, biodiversity; Secondary: culture, employment)
- Method of quantifying multiple roles
- Method of valuing benefits/negative impacts
- Approach to enhancing beneficial roles and mitigating negative impacts (reuse, circulation, minimizing discharge, raising ridges)
- Use of agricultural land for other purposes: no production functions but with higher benefits (paddy fields as wetland)
- Policy and trade implications (supports for enhanced benefits, water and environmental trade)

While preparing the document, the outcomes received from the International Workshop on "Multiples Roles and Diversity of Irrigation Water", organized by the Work Team at the time of ICID's 19<sup>th</sup> Congress in Beijing in September 2005 were also taken into consideration.

The document so prepared was brought out by the CO, ICID and distributed amongst the delegates of the 4 WWF, who participated in FT4.1.5 Session and was helpful for deliberations regarding managerial strategies, traditional wisdom and experience of local communities, etc. to achieve food security, poverty reduction and conservation of eco-systems. For publishing the document, a sum of US \$ 800 was received from JNC-ICID towards financial assistance.

#### (iv) Releases made by ICID in collaboration with National Committees/Work Bodies / International Organizations

The releases made by the various Work bodies/National Committees in collaboration with International Organizations during the period from 1 April 2005 to 31 March 2006 were:

Sr. No.	Details of Report/CD	Published by
1	CD-ROM Version of Irrigation Sector Reform in Eastern Countries, 2005	German National Committee of ICID (GECID)
2	CD-ROM Version of 50 Years ICID in Hungary – Memorial Session at the Hungarian Academy of Sciences, 12 October 2005	Hungarian National Committee, ICID (HUCID)
3	Irrigation and Drainage Performance Assessment: Practical Guidelines, 2005	IWMI/ICID/CABI Publishing, United Kingdom
4	4 <sup>th</sup> International Workshop on Sustainable Development of Tidal Areas – Evaluation of Draft ICID Handbook on SDTA, Beijing, China, 13 September 2005	Korean National Committee on Irrigation and Drainage (KCID-ICID) and Chinese National Committee on Irrigation and Drainage (CNCID)
5	Integrated Land and Water Resources Management in History – Proceedings of the Special Session on History, 16 May 2005, ICID 21 <sup>st</sup> European Regional Conference 2005, 15-19 May 2005, Frankfurt (Oder), Germany and Stubice (Poland)	ICID/European Regional Working Group
6	Land Reclamation, Irrigation and Flood Protection in Italy over the Centuries, Volume I: (i) – Physical, Agricultural and Economic Italy Today; and (ii) – Climate and Land Change over the Past Millenia, February 2006.	Italian Committee for Irrigation and Drainage (ITAL-ICID)
7	Land Reclamation, Irrigation and Flood Protection in Italy over the Centuries, Volume II: (iii) Greek Colonization; (iv) Masters of Hydraulics: Etruscan Land Reclamation; and (v) The Romans, Pupils of the Etruscans in Hydraulic Matters, February 2006.	Italian Committee for Irrigation and Drainage (ITAL-ICID)

### ICID Day Celebrations

Commemorating the ICID Day, which falls on 24 June, a special function was organized in New Delhi in collaboration with New Delhi Centre of World Water Council (NDC-WWC). Secretary General Gopalakrishnan delivered a talk on ICID@55 to a gathering of invited experts belonging to water sector.

The Central Office staff gathered in remembrance of the occasion in the Chamber of Secretary General and a review of the preparatory works for 56<sup>th</sup> IEC and 19<sup>th</sup> Congress was undertaken.

### Visits of Office Bearers and Other Distinguished Personalities to the Central Office (1 April 2005 To 31 March 2006)

**1. Mr. Peter S. Lee, President, ICID** paid his maiden visit to the Central Office after assuming his Presidentship on 27 October 2005. He was welcomed by Mr. M. Gopalakrishnan, Secretary General, ICID and other professionals. The President discussed various issues like proposed internal and external review processes, composition of the Team, Term of References (ToRs), work schedule etc. Approach to provide ICID's input for 4 World Water Forum (4WWF) in March 2006 was also deliberated in Mexico. A few other issues concerning with administrative and

financial matters were also looked into. During the occasion, a get-together was arranged with the Central Office staff.

On this occasion, President Peter S. Lee delivered a talk on "Reflections on the ICID 19<sup>th</sup> Congress in Beijing" before the World Water Council – New Delhi Associate Centre. High ranking officials and water professionals belonging to different disciplines in the Government of India, members of sister organizations dealing with water sector like India's Central Board of Irrigation and Power, Indian Water Resources Society, its Vice President Mr. M. Gopalakrishnan gathered during the event. President Lee was felicitated by the audience on his elections to the esteemed position.

Earlier too, Mr. Lee visited the Central Office on 23 August 2005 as Chairman, Permanent Finance Committee (PFC) and held meetings with Secretary General Er. M. Gopalakrishnan. Several financial issues were discussed.

**2. President Hon. Aly Shady**, and current President, IWRA visited the Central Office on 13 April 2005 and held discussions with Secretary General M. Gopalakrishnan on various matters of mutual interest to the two organizations. ICID has a standing MoU with IWRA on "Mutual collaborative efforts in water related matters."



*ICID Central Office Building*



*Secretary General Gopalakrishnan with President Hon. Aly Shady*



*President Lee and Mrs. Lee welcomed by K.N. Sharma, Secretary, ICID*



*H.E. Alfredo Bone Pueyo, Minister of Environment for Aragon, Spain and Prof. Biswas at Central Office*



*Central Asian delegation and Vice President Dukhovny at Central Office*



*Prof.dr.ing. Joachim Quast with Central Office Professionals*

**3. A Spanish Delegation led by H.E. Alfredo Bone Pueyo, Hon'ble Minister of Environment for Aragon, Spain** visited ICID Central Office on 21 November 2005. He was accompanied by **Prof. Asit K. Biswas, President, Third World Center for Water Management, Mexico**, among other dignitaries. President Peter S. Lee and Secretary General M. Gopalakrishnan, Vice Presidents Victor A. Dukhovny (Uzbekistan) and R. Jeyaseelan (India) were present on the occasion. President Hon. Aly M. Shady; Vice Presidents Hon. Pritam Singh and Ramesh Chandra; Secretary General Hon. R.S. Varshney and C.D. Thatte joined the occasion on invitation.

Secretary General M. Gopalakrishnan gave a brief on ICID and its activities to the visitors. He informed that Spain had been one of ICID's active members ever since 1955. Utilising the occasion, he thanked the Spanish National Committee of ICID (CERYD) for sponsoring 2005 WatSave Awards. Highlighting one of the distinguished recipients of the award from Spain,

viz., Dr. Juan Antonio Rodriguez Diaz (for ICID Young Professionals Award) he praised Spanish contribution to Irrigation Sector. President Lee in his brief elucidated the aspects relevant to environmental consideration that was kept to fore by ICID since its inception. He mentioned that the ICID Environmental Checklist evolved in 1993 is still referred to by professionals. President Hon. Aly Shady recounted on the 17<sup>th</sup> ICID Congress held successfully in Granada, Spain in 1999. Vice President Dukhovny praised the early efforts of Spain to bring out 'History of Irrigation', which inspired him to write four books on irrigation in Uzbekistan. Vice President Jeyaseelan talked about Indian Agrarian Economy and said that efforts are being made for improvement of efficiency. Secretary General Hon. Thatte gave a brief on India's plan for inter basin water transfers.

H.E. Alfredo Bone Pueyo, Minister of Environment for Aragon, Spain thanked President Lee, Secretary General Gopalakrishnan, present and past Office

Bearers of ICID and Prof. Asit K. Biswas for this meeting giving an overview of the enormous work that is being done by ICID. H.E. Pueyo said that a new International Center for Water and Environment (CIAMA) would be created in Spain and ICID would be consulted in this regard. He expressed his desire for closer cooperation between CIAMA and ICID. He informed that the project of the Ebro River Interbasin Transfers was un-successful because it was not affordable financially, environmentally and socially. He said that the technical issues should be viewed with political policies. He also stressed upon quality aspects of water resources. He said that the solutions had to be local and socially acceptable.

President Lee thanked H.E. Alfredo Bone Pueyo and his delegation for the visit and the Office Bearers of ICID who joined the occasion.

**4. A Central Asian delegation led by Vice President Prof. Victor A. Dukhovny** visited ICID Central Office on 26 November 2005. The delegation included Mr. Anvar Zairov, Ministry of Land Reclamation and Water Resources (Tajikistan); Mr. Salimjon Dusmatov, Ministry of Agriculture (Uzbekistan); Mr. Begench Mommadov, Ministry of Water Resources (Turkmenistan); Mr. Esen Jusumatov (Kyrgyzstan); Mr. Amirkhan Kenshimov (Kazakhstan) and Ms. Oygul Usmanova (Uzbekistan). President Hon. Aly M. Shady graced the occasion. Secretary General Mr. M. Gopalakrishnan welcomed the guests and made a presentation on activities of ICID. President Hon. Aly Shady invited the Ministers to actively participate in the activities of International Commission on Irrigation and Drainage (ICID) and International Water Resources Association (IWRA) and play the right role for their countries. President Hon. Shady encouraged the young Ministers to come forward and face the challenges in today's era of globalization where countries are inter-dependent.

Vice President Dukhovny informed the Ministers that ICID offers a platform for all including Central Asian Countries in transition to voice their difficulties and seek solutions.

The Ministers expressed their happiness and desire to contribute to the mission of ICID. They felt that

ICID provides a unique opportunity to the member countries to place new ideas and learn from experiences of others.

Secretary General Gopalakrishnan thanked all the dignitaries for visiting Central Office and supporting ICID.

**5. Prof. Dr. Ing. Joachim Quast, Secretary of German National Committee of ICID (GECID)** visited ICID Central Office on 10 March 2006. Secretary General Er. M. Gopalakrishnan welcomed Prof. Quast and appreciated the contributions of GECID, especially the 21<sup>st</sup> European Regional Conference held during 15-19 May 2005 at Frankfurt (Oder), Germany and Slubice (Poland). He admired the leadership of Dr. Ing. Eiko Lübbe, Chairman of GECID and Chairman of European Regional Working Group of ICID (ERWG) and his team for their Herculean efforts in organizing the Conference. Secretary General Gopalakrishnan congratulated Prof. Quast for successful operation of ERWG for last 10 years (1995 to 2005). Contributions of Dr. Ing. Wolfram Dirksen (Germany), Former Chairman of ERWG (1995 to 2002) were remembered. Secretary General then presented a brief overview of the activities currently going on. He mentioned about upcoming External and Internal Review of ICID sponsor for WatSave Awards, Country Policy Support Program (CPSP) and ICID's Involvement in upcoming 4<sup>th</sup> World Water Forum (WWF-4) at Mexico etc. A set of latest ICID publications was presented to him.

Prof. Quast, in his brief presentation, covered a brief history of GECID, Irrigation and Drainage in Germany, organization of 21<sup>st</sup> European Regional Conference and active participation of young professionals in it, floods and its mitigation in European, project report of the "Irrigation Management Transfer in European Countries of Transition" (2003 to 2005), land reforms and bio-fuel in Europe etc. Prof. Quast, at the end, emphasized that he would continue to contribute actively for the cause of ICID i.e. 'Managing Water for Sustainable Agriculture'.

Secretary General M. Gopalakrishnan thanked Prof. Quast for visiting Central Office and supporting ICID.

## External Support

In 2005/06, the Commission received the following financial assistance:

### Government of The Netherlands

A sum of US\$ 149 440 (EURO 116 750) was received from the Government of Netherlands towards the fourth installment of the Grant for Phase I of Country Policy Support Program in the year 2005-2006.

### Japanese National Committee (JNC-ICID)

A sum of US\$ 8 000 was received from JNC-ICID towards financial assistance for publishing a Booklet on Proceedings of International Workshop on "Multiple Roles and Diversity of Irrigation Water" and a Brochure for the 4 WWF.

# Accounts for the Year Ending 31 March 2006

## Consolidated Receipt and Payment Account (1 April 2005 to 31 March 2006)

	2005-06 Rs.	2004-05 Rs.
<b>Receipts</b>		
Membership Subscription	8 416 643	11 546 053
Publications	502 625	786 705
Meeting Receipts	2 709 258	-
Interest	957 688	694 585
Others	1 387 023	776 515
Let out Property	7 973 510	7 561 974
<b>Total Receipts</b>	<b>21 946 747</b>	<b>21 365 832</b>
<b>Payments</b>		
Salaries and Benefits	10 419 661	9 483 662
Services and Maintenance	2 408 856	2 693 345
Property Tax and Utilities	3 269 004	511 622
Additional Construction	-	1 641 554
Rehabilitation / Refurbishing	217 225	2 000 000
Printing and Distribution	2 823 580	1 575 434
Subscription to other organizations	-	89 647
Travel Expenditure on Meetings	549 026	1 086 979
Others	287 765	1 789 104
Contingency	-	-
<b>Total Payments</b>	<b>19 975 117</b>	<b>20 871 347</b>
<b>Surplus (Deficit) (1)</b>	<b>1 971 630</b>	<b>494 485</b>
Grant Receipts	6 769 920	25 119 900
Grant Utilization	10 750 310	20 774 267
<b>Surplus (Deficit) of Grants (2)</b>	<b>(3 980 390)</b>	<b>4 345 633</b>
<b>Net Surplus (Deficit) (1)+(2)</b>	<b>(2 008 760)</b>	<b>4 840 118</b>

## Consolidated Balance Sheet as on 31 March 2006

	As on 31.3.2006 Rs.	As on 31.3.2005 Rs.
<b>Assets</b>		
Property and Equipment	10 145 977	10 107 701
Receivables	3 164 066	4 096 183
Stocks	2 070 220	2 151 023
Cash at bank and in hand	31 132 383	34 160 212
<b>Total Assets</b>	<b>46 512 646</b>	<b>50 515 119</b>
<b>Liabilities</b>		
Accounts payable	5 093 854	3 473 584
Grants	3 061 152	7 357 676
Gratuity Fund	2 227 264	2 330 884
Superannuation Fund	1 372 194	1 283 101
<b>Total Liabilities</b>	<b>11 754 464</b>	<b>14 445 245</b>
<b>Net Assets</b>	<b>34 758 182</b>	<b>36 069 874</b>
<b>Reserves</b>		
General Fund	34 135 855	35 472 504
Dictionary Fund	622 327	597 370

The year 2005-06 closed with total receipt of Rs. 21.95 M and expenses of Rs. 19.98 M reflecting a surplus of Rs. 1.97 M. This does not take into account the specific purpose grants for CPSP received from the Dutch Government and financial assistance for publishing a Booklet on Proceedings of International Workshop on "Multiple Roles and Diversity of Irrigation Water" and a Brochure for the 4<sup>th</sup> WWF from JNC-ICID. The decrease in the anticipated surplus is due to the following reasons:

- (i) Lower receipt of Membership Subscription than anticipated.
- (ii) Lesser Publication receipt.
- (iii) A **substantially lower** sum was received in respect of the dues on the share of Registration Fee from 19<sup>th</sup>

Congress, Beijing.

In the budget considered during 56<sup>th</sup> IEC Beijing, a receipt of US\$ 275 000 was anticipated from the 800 Nos. of prospective registered delegates. The Chinese National Committee (CNCID) reported that there were only 342 paid delegates. A sum of US\$ 125 775 should have been received as 50% share for ICID, even with this lower registered and paid delegates. However only a sum of US\$ 60,000 was remitted to ICID. Also a sum of US\$ 3 006 was spent by CNCID on replication of CDs.

- (iv) An increase in House Tax for the let out portion of additional construction in first floor of Central Office Building by 100 times was assessed by New Delhi Municipal Council (NDMC). This had obliged ICID to spend more on this score as taxes.

## ICID Council Meetings :

### 1. 57th IEC meeting, Kuala Lumpur, Malaysia, 10-16 September 2006.

Contact : Mr. Mohd. Azharibin Ghazali, Secretary, Malaysian National Committee on Irrigation and Drainage (MANCID), Director, Irrigation and Agricultural Drainage (DID), Department of Irrigation and Drainage, Jalan Sultan Salahuddin, 50626



Kuala Lumpur, Malaysia. Tel: +603 2692 8729, +603 2692 8912; +603 2693 0345; Fax : +603 2694 5489, +603 2694 5489; E-mail : azhari@water.gov.my; pp@water.gov.my; mancicid@water.gov.my, icid2006@gmail.com, Website : <http://www.icid2006.org>

### 2. 58th IEC Meeting, 30 September - 5 October 2007, Sacramento, USA.

Contact: Mr. Larry D. Stephens, Executive Vice President, U.S. National Committee on Irrigation and Drainage (USCID), 1616 Seventeenth Street, Suite 483, Denver, CO 80202, USA. Tel: +1 303 628 5430; Fax: +1 303 628 5431; E-mail: stephens@uscid.org; Website: <http://www.uscid.org/>.

### 3. 59th IEC Meeting, 2008, Lahore, Pakistan.

Contact: Mr. Illahi B. Sheikh, Secretary, Pakistan National Committee on Irrigation and Drainage (PANCID), Chairman, Federal Flood Commission, Office of the Chief Engineering Adviser, 16-D (East) Safdar Mansion, Blue Area, Islamabad, Pakistan. Tel: +92 51 920 1705; Fax: +92 51 922 1806; E-mail: pakfloodcommission@hotmail.com.

### 4. 60th IEC Meeting, 2009, Abuja, Nigeria.

Contact: Engr. I.K. Musa, Director (Irrigation and Drainage), Chairman, Nigerian National Committee

of ICID (NINCID), Federal Ministry of Water Resources and Rural Development, PMB 159, Garki, Area 1, Abuja, Nigeria. Tel: +234 9 234 2910; Fax: +234 9 234 3035; E-mail: ikmusa@rosecom.net; nincid@yahoo.com.

### 5. 61st IEC Meeting, 11-17 July 2010, Jakarta, Indonesia.

Contact: Ir. Moh Hasan, Dipl. HE, Secretary General, Indonesian National Committee, ICID (INACID), Directorate General of Water Resources, Ministry of Public Works, Jalan Pattimura No. 20/ Perc. 7, Kebayoran Baru, Jakarta 12067, Indonesia. Tel : +62 21 723-0317, +62 21 723-0318; Fax : +62 21 726-1956, +62 21 720-8285; E-mail : indonecid@kimpraswil.go.id, indonecid@yahoo.co.id.

## ICID Regional Conferences

### 1. 3rd Asian Regional Conference, 13-15 September 2006, Kuala Lumpur, Malaysia. Theme: Transforming irrigated agriculture into an efficient engine of growth.

Contact : Conference Secretariat, 3rd Asian Regional Conference, Division of Irrigation and Agricultural Drainage, Ministry of Agriculture and Agro-Based Industry, Level 4, Wisma Tani, Block 4G1, Precint 4, 62624 Putrajaya, Malaysia. Tel: +603-88701618/1662, Fax : +603-88884855, E-mail : mancicid@water.gov.my, azhari@agri.moa.my, icid2006@gmail.com, Website : <http://www.icid2006.org>.

### 2. 22nd European Regional Conference, 2-6 September 2007, Pavia, Italy. Theme : Water Resources Management and Irrigation and Drainage Systems Development in the European Environment.

Contact : D.ssa M. Elisa Venezian Scarascia, ITAL-ICID General Secretary, Via Sallustiana, 10 Roma, Italy. Tel : +39 06 4884728 (Monday-Friday : 9-13), Fax " +39 06 4884728, E-mail : erc2007@italicid.it, me.scarascia@politicheagricole.it, Website : <http://www.italicid.org/erc2007>.

### 3. 4th Asian Regional Conference, 2007, Iran.

Contact : Dr. S.A. Assadollahi, Secretary, Iranian National Committee on Irrigation and Drainage (IRNCID), No. 24, Shahrsaz Lane, Kargozar St., Zafar Ave., Tehran. Iran. Tel : +98 21 2257348; Fax : +98 21 2272285; E-Mail :

IRNCID@neda.net.ir; WWW : <http://www.irncid.org/>.

**4. 2nd African Regional Conference, 2009, Abuja, Nigeria.**

Contact: Engr. I.K. Musa, Director (Irrigation and Drainage), Chairman, Nigerian National Committee of ICID (NINCID), Federal Ministry of Water Resources and Rural Development, PMB 159, Garki, Area 1, Abuja, Nigeria. Tel: +234 9 234 2910; Fax: +234 9 234 3035; E-mail: ikmusa@rosecom.net; info@nincid.com.

**5. 5th Asian Regional Conference, 2009, on the theme "Improvement in Efficiency of Irrigation Projects through Technology Up gradation & Better O&M".**

Contact : Mr. C.D. Khoche, Member-Secretary, Indian National Committee, ICID (INCID), Second Floor, Wing No. 4, West Block-I, R.K. Puram, New Delhi-110066. Tel: +91-11-2618 2348, 2616 9758, Telefax : +91-11-2618 2348, E-mail : wappower@ndb.vsnl.net.in; incid2000@vsnl.com.

### ICID Congress

**1. 20<sup>th</sup> International Congress on Irrigation and Drainage, Lahore, Pakistan, 2008.**

Contact : Dr. Illahi B. Shaikh, Chairman, Pakistan National Committee on Irrigation and Drainage (PANCID), Chief Engineering Adviser/Chairman Federal Flood Commission, 16-D (East) Blue Area, Islamabad, Pakistan. Tel : +92 51 920 6589, Fax : +92 51 922 1805, E-mail : pakfloodcommission@hotmail.com

### Other ICID Regional/National Events

**1. XVI National Congress on Irrigation and Drainage (CONIRD), 25-30 June 2006, Goiânia, Brazil.**

Contact : Ing. Helvecio Mattana Saturnino, Coordinator, President, Brazilian National Committee, ICID (ABID), SCLR/N 712 Bloco C no. 18, 70760-533 Brasilia DF, Brazil. Tel : +55 61 32732154 / 32723191, Fax: +55 61 32747245, E-mail : abid@pib.com.br, helvecio@gcsnet.com.br

**2. 7th International Micro Irrigation Congress, 13-15 September 2006, Kuala Lumpur, Malaysia.**

Contact : Conference Secretariat, 7th International Micro Irrigation Congress, Division of Irrigation and Agricultural Drainage, Ministry of Agriculture and Agro-Based Industry, Level 4, Wisma Tani, Block 4G1, Precint 4, 62624 Putrajaya, Malaysia. Tel : +603-88701618/1662, Fax : +603-88884855, E-mail : mancid@water.gov.my, azhari@agri.moa.my, icid2006@gmail.com, Website : <http://www.icid2006.org>

**3. IPTRID/ICID International Workshop on Monitoring and Evaluation of Capacity Development Programmes, 14 September 2006, Kuala Lumpur, Malaysia.**

Contact : IPTRID Secretariat, Land and Water Development Division, Food and Agriculture Organization of the United Nations (FAO), Viale delle Terme di Caracalla, 00100 Rome, Italy. E-mail : Virginie.Gillet@fao.org, Tel : +39 06 570 54402, Fax : +39 06 570 56275 or Prof. Tom Franks, Chairman, Working Group on Capacity Building, Training and Education (WG-CBTE). E-mail : tom.franks@btinternet.com.

**4. International Workshop on "Water saving practices in rice paddy cultivation", September, 2006.**

Contact : Secretariat, Dr. R Ragab, Centre for Ecology and Hydrology, Wallingford, Oxon, OX10 8BB, UK. Tel : +44-1491-692303 E-mail : Rag@ceh.ac.uk. Website : <http://www.wg-crop.icidonline.org>

**5. SANCID Symposium 2006, 15-17 November 2006, Aventura Swadini Resort, Mpumalanga, South Africa. Theme : The Changing Face of Irrigation in South Africa.**

Contact : Isobel van der Stoep, Department of Civil and Biosystems Engineering, University of Pretoria, Pretoria 0002, South Africa. Tel.: +27 (0)12 420 2174, Fax: +27 (0)12 362 5218, E-mail: isobel.vanderstoep@up.ac.za, Website : <http://www.sancid.org.za>

**6. 10th International Seminar on Participatory Irrigation Management (PIM), 2-5 May 2007, Tehran, Iran.**

Contact: Dr. S.A. Assadollahi, Secretary, Iranian National Committee on Irrigation and Drainage (IRNCID), No. 24, Shahrshaz Lane, Kargozar St., Zafar Ave., Tehran. Iran. Tel : +98 21 2257348; Fax : +98 21 2272285; E-Mail : IRNCID@neda.net.ir; Website : [www.pim2007.org](http://www.pim2007.org)

## Office Bearers and their E-mail Addresses

S.No.	Name	Position	E-mail
1.	Mr. Peter S. Lee Great Britain (2005-2008)	President	peter.lee@mottmac-india.com
2.	Dr. Alain Vidal France (2003-2006)	Vice President	alain.vidal@cemagref.fr
3.	Mr. R. Jeyaseelan India (2003-2006)	Vice President	cwcchairman@netscape.net
4.	Prof. Victor A. Dukhovny Uzbekistan (2003-2006)	Vice President	dukh@icwc-aral.uz; dukh@rol.uz
5.	Prof. YooMan, HUH Korea (2004-2007)	Vice President	huym@karico.co.kr; okmillion@hanmail.net
6.	Dr. Hussein El-Atfy Egypt (2004-2007)	Vice President	elatfy@mwri.gov.eg
7.	Dr. G.G. Guluyk Russia (2004-2007)	Vice President	rusiptrid@mail.ru depmeliiovodhoz@mtu-net.ru
8.	Dr. Mark Svendsen USA (2005-2008)	Vice President	marksvendsen@aol.com
9.	Mr. Felix B. Reinders South Africa (2005-2008)	Vice President	reindersf@arc.agric.za
10.	Mr. Gao Zhanyi China (2005-2008)	Vice President	gaozhy@iwhr.com
11.	Mr. M. Gopalakrishnan India (2004-2006)	Secretary General	icid@icid.org

# Chairpersons of Work Bodies / Task Forces

Sl. No.	Chairperson's Name	Workbody	E-mail Addresses (as on 31 March 2006)
<b>PERMANENT COMMITTEES</b>			
1.	Engr. I.K. Musa Nigeria	Permanent Committee on Strategy Planning and Organizational Affairs (PCSPOA)	majidadimusa@yahoo.com
2.	Dr. Hector Malano Australia	Permanent Committee for Technical Activities (PCTA)	h.malano@civenv.unimelb.edu.au
3.	Mr. Joseph I. Burns USA	Permanent Finance Committee (PFC)	joseph.burns@comcast.net
<b>COMMITTEE/WORKING GROUP / WORK TEAM UNDER PCSPOA</b>			
4.	Mr. Luis Rendon Pimentel Mexico (Convenor)	American Regional Working Group (AMRWG)	josafatcaballero@cna.gob.mx
5.	Dr. S. Taniyama Japan	Asian Regional Working Group (ASRWG)	s.taniyama@jarus.or.jp; taniyama@msc.biglobe.ne.jp
6.	Eng. Eiko Lübbe, Germany	European Regional Working Group (ERWG)	524@bmelv.bund.de
7.	Engr. I.K. Musa Nigeria	African Regional Working Group (AFRWG)	majidadimusa@yahoo.com
8.	Mr. Bukar Wakil	Special Work Team on Lake Chad Basin (WT-LCB)	nincid@yahoo.co.uk
9.	Prof. Victor A. Dukhovny Uzbekistan	SpecialWorkTeamonAralSea Basin (ST-ARAL)	dukh@cwc-aral.uz dukh@rol.uz
10.	Mr. A.R. Salamat Iran	Working Group on Young Irrigation Professionals Forum (WG-YPF)	irncid@meda.net.ir salamat_ir@yahoo.com
11.	Dr. Illahi B. Shaikh Pakistan	Committee on Congresses/ Conferences (C-CONGR)	pakfloodcommission@hotmail.com
<b>COMMITTEE/WORKING GROUP / WORK TEAM UNDER PCTA</b>			
<b>A. UNDER THE STRATEGY THEME "KNOWLEDGE" (ST.K)</b>			
12.	Dr. Mrs. Shaden Abdel-Gawad, Egypt	IPTRID Advisory Committee (AC-IPTRID)	shaden@mwgam eg.org
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(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>(A) SPECIAL PUBLICATIONS</b>						
1.	Planning and Designing of Micro-Irrigation in Humid Regions	2005	20	10	1	2
2.	Manual on planning of structural approaches to flood management	2005	40	20	2	3
3.	Application of geosynthetics in irrigation and drainage projects	2004	30	15	2	3
4.	The Indus Basin - History of Irrigation, Drainage and Flood Management	2004	140	70	4	7
5.	Danube Valley - History of Irrigation, Drainage and Flood Control	2004	150	75	5	9
6.	CD-ROM Version of Multilingual Technical Dictionary	2002	50	25	1	2
7.	Historical Dams	2001	130	65	5	9
8.	CD-ROM Version of ICID Watsave Activities (Handling charges)	2001	-	-	5	5
9.	Canal Operation Simulation Models	2000	20	10	1	2
10.	ICID Survey on Funding of Operation, Maintenance and Management of Irrigation Projects	2000	30	15	1	1
11.	Remote Sensing and Geographic Information Systems in Irrigation and Drainage - Methodological Guide and Applications	2000	50	25	2	3
12.	CD-ROM ICID@50 (Handling charges)	2000	-	-	5	5
13.	Guidelines for Rehabilitation and Modernization of Irrigation Projects	1999	20	10	2	2
14.	Manual on Non-Structural Approaches to Flood Management	1999	40	20	3	4
15.	Multilingual Technical Dictionary	1996	86	20	11	13
16.	Selection Criteria for Irrigation Systems	1995	30	7	2	3
17.	L'Automatisation Des Reseaux D'Irrigation En Canaux (F)	1994	28	7	3	3
18.	Automation of Canal Irrigation Systems	1993	28	7	2	2
19.	Criteres De Choix Des Systems D'Irrigation (F)	1992	30	7	2	3
20.	A Guide to Acquiring A Computer System for the Management of Water Resources	1992	33	8	2	3

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21.	Guidelines on the Construction of Horizontal Subsurface Drainage Systems	1990	32	8	4	5
22.	Improvement in Irrigation Management with Special Reference to Developing Countries, State-of-the-Art, No. 4	1987	25	2	2	3
23.	Design Practices for Covered Drains in an Agricultural Land Drainage System - A Worldwide Survey	1987	50	3	6	8
24.	Automatisation Des Systemes D' Irrigation De Surface a Travers Le Monde (F)	1987	10	2	2	2
25.	Automated Farm Surface Irrigation Systems Worldwide	1986	10	2	2	2
26.	Guide 106 De La CIID - Developpement Du Beton Bitumineux Et De La Membrane Bitumineuse (F)	1985	13	2	2	2
27.	ICID Guidelines 106 - Development of Bitumen Concrete and Membranes	1985	13	2	2	2
28.	History of Irrigation and Drainage in the USSR	1985	35	2	6	8
29.	Design Practices of Open Drainage Channels in an Agricultural Land Drainage System - A Worldwide Survey	1984	25	2	5	5
30.	State-of-the-Art Irrigation, Drainage and Flood Control, No. 3	1984	25	2	5	7
31.	State-of-the-Art Irrigation, Drainage and Flood Control, No. 2	1981	22	2	5	5
32.	State-of-the-Art Irrigation, Drainage and Flood Control, No. 1	1978	22	2	7	9
33.	Manual of Flood Control Methods and Practices	1983	20	2	5	5
34.	Irrigation and Drainage in the World (Vol. 1-1981, Vol. 2-1982, Vol. 3-1983)	1981-83	75	7	19	23
35.	Tendences Modernes Dans La Necaanisation De Construction Dans Les Projects D' Irrigation Et De Drainage (F)	1980	18	2	2	3
36.	ICID Technical Memoirs No. 3	1979	13	2	5	5
37.	ICID Technical Memoirs No. 2	1974	8	2	5	5
38.	ICID Technical Memoirs No. 1	1972	5	2	5	5
39.	Drainage Construction Technique for Vertical/Tubewell Drainage	1978	6	2	2	2
40.	Irrigated Rice - A Worldwide Survey	1977	11	2	7	9
41.	Flood Control in the World - A Global Review, Vol. II	1977	11	2	6	8
42.	Flood Control in the World - A Global Review, Vol. I	1976	12	2	7	9

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<b>(B) TRANSACTIONS AND PROCEEDINGS</b>						
43.	Transactions – Nineteenth Congress on Irrigation and Drainage, Beijing, China, 2005 on the theme “Use of Water and Land for Food and Security and Environmental Sustainability” (Abstracts Vols – 1A, 1B, General Reports – 1C, and Keynote Addresses - 1D and CD-ROM)	2005	450	225	8	12
	Only CD-ROM		250	125	1	2
44.	Transactions - Eighteenth Congress on Irrigation and Drainage, Montreal, Canada, 2002 on the theme “Food Production under Conditions of Water Scarcity, Increasing Population and Environmental Pressures” (Abstracts Volumes 1A, 1B; General Reports-1C and CD-ROM)	2002	200	100	6	10
45.	Transactions – Seventeenth Congress on Irrigation and Drainage, Granada, Spain 1999 on the theme ‘Water for Agriculture in the Next Millennium’ (Vols. 1A-1J) (10 Volumes and Vol. 2)	1999	425	110	25	29
46.	Transactions – Sixteenth Congress on Irrigation and Drainage, Cairo, Egypt, 1996 on the theme ‘Sustainability of Irrigated Agriculture (Vols. 1A-1H) (8 Volumes and Vol. 2)	1996	365	25	25	27
<b>(C) OTHER PUBLICATIONS (ONLY HANDLING CHARGES)</b>						
47.	Sector Vision : Water for Food and Rural Development - Country Position Papers	2000	5	5	5	8
48.	Checklist to Assist Preparation of Small-Scale Irrigation Projects in Sub-Saharan Africa	1998	5	5	5	5
49.	Watsave Scenario	1997	5	5	5	5

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