



ICID•CIID

Annual Report 2009-10



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE

60 Years of Service in Managing Water for Sustainable Agriculture

Mission of ICID

The 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 ICID 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 the state of the art techniques for sustainable agriculture in the world.



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International Commission on Irrigation and Drainage

CONTENTS



Message from the President	v
From the Secretary General	1
Membership Network	3
Management	4
Report from Member Countries	7
Workbodies	14
Key ICID Events	37
Global Cooperation	56
International Participation	64
Publications	67
Central Office	71
Financial Statement	76
Appendices	
A1 Membership Network – Regionwise	79
A2 Workbodies and task forces	80
A3 Countrywise membership on workbodies and task forces	81
A4 Regionwise membership and workbodies represented	84
A5 World irrigated area – Regionwise	86
A6 World drained area – Regionwise	88
A7 Sprinkler and micro irrigated area in member countries	91
A8 Contacts of national committees	92
A9 Contacts of office Bearers	94
A10 Contacts of workbody chairpersons	95
A11 Websites of workbodies	96
A12 List of publications	97
A13 Future ICID events	99
Obituary	100

ICID Enters 60th Year in its mission to promote agricultural water management

On 24 June 1950, 11 countries joined hands and established the International Commission on Irrigation and Drainage (ICID) with its Secretariat at New Delhi, India. At the time of its celebrating the Diamond Jubilee, the Commission has a network of 110 countries spread across the world with 65 countries as its active members. About 290 professionals from its member countries and international organizations voluntarily contribute to enhance the knowledge as a part of the mission of ICID in furthering the science and technology applied to Irrigation and Drainage.



It gives me extreme pleasure to say a few words on this auspicious occasion of the 60th anniversary of the founding of ICID. As President of this esteemed organization, I am continually impressed and amazed by the strength, resilience, fortitude, and creativity

of the ICID family over the past 60 years. ICID is an international institution which depends entirely on the support of its 110 member countries and the voluntary efforts of the experts in the national committees. The global reach and impact of the institution is particularly commendable given its humble beginnings with 11 member countries in 1950. Few institutions can claim to have attained such a high level of maturity and international recognition. We owe this remarkable achievement to the vision, dynamism and generosity of our founding fathers, who created the organization with head office in New Delhi, and to the thousands of dedicated volunteers and experts, Central Office staff, Secretaries General, and office bearers who have blazed a trail of excellence and innovation over the past six decades. The ability of ICID to meet the evolving technical, scientific and engineering challenges over the decades should never be underestimated. From the early work in design and construction of irrigation and drainage projects, to development of standards of practice, to improvement of system efficiency, to rehabilitation and modernization of the vast irrigation and drainage infrastructure, ICID has led the way. It has informed

governments, multilateral and regional development agencies, and practitioners of best policies and practices. When the emphasis shifted to environment, people, farmers, institutions, poverty, finance, and climate change, ICID showed that was fully capable of adapting to these emerging and prevailing challenges. However, ICID is not only concerned with the present, but it has the vision to look ahead, and to start to grapple with the issues of food security, markets, trade, biofuels and energy. These matters will change our way of thinking and doing business, and I am proud to say that ICID has already shown that it is geared up to deal with this new agenda. I wish all in the ICID family, the national committees, and Central Office staff my heartiest congratulations on this Diamond Jubilee anniversary.

Last but not least, I express my deepest gratitude to the Government of India for graciously hosting the Central Office and for its pivotal support of ICID since the founding in 1950. May ICID continue to grow from strength to strength, and have even more glorious future.

A handwritten signature in blue ink, reading "Chandra A. Madramootoo".

Chandra A. Madramootoo
President



From the Secretary General

It is my delight to place before you the 60th Annual Report of the International Commission on Irrigation and Drainage (ICID) covering the activities in between April 2009 – March 2010.

Soon after World Water Forum 5 in Istanbul where ICID on invitation, played a coordinating role on the topic of “Water for Food”, interacting with a consortium of over 56 international organizations, ICID’s visage in the global water arena grew up. The topic handled by ICID and the final product that it was brought out, with its internal and limited resources, received wider acknowledgement. Thanks are due to all contributions that we could garner from our various workbodies in this regard and PH Schultz for his leadership and coordinator’s role.

On the 24th June 2009, we had the pleasure to cross the threshold connoting the 60th successful year of operation. A “Diamond Jubilee Year” has a special value in the Indian tradition, and in tune with it, we rededicate ourselves all the more to the commitments and mission of ICID with the knowledge acquired over the six decades, globally. Thanks to the host National Committee INCID, an impressive IEC was possible in December 2009, befitting ICID’s 60th Year. The offer to host the IEC and a decision to accept it was, as many of you would recall, at short notice. Due to special circumstances that crept in for a request for the change of the venue, from NINCID the change of venue was handled speedily. Notwithstanding the short duration that was made available to INCID, an impressive event was ensured by our hosts making the 60th IEC, a memorable one in ICID’s long history.

Indeed, the 2009 December New Delhi annual events had several ‘unparallels’, if I may say so. ICID had the proud privilege of receiving the Prime Minister of India, Dr. Manmohan Singh, during this occasion. What is heartening further is the fact that the country with a population of over a billion acknowledged the crucial role played by ICID in enhancing productivity of food and fibre to alleviate global food insecurity. The host country demonstrated their strong commitment to support ICID actions. Honorable and distinguished Indian Prime Minister came with a galaxy of his key cabinet colleagues handling policies concerning water, food, planning and financing to the ICID event. Irrigation (and drainage) as a tool for enhancing food production in the changing situation imposing more and more land and water constraints got a proper recognition. Let us hope

that ICID would have many more ‘repeats’ in future; and have the honour of receiving attention at the highest political levels of the host countries. The inspiration it provides to our dedicated contributions will enhance, if this is achievable.

The theme for this year’s conference focused on enhancing efficiency of existing irrigation projects. This fell in tune with ICID’s commitment during the World Water Forum 5 when it made a pledge to pursue further actions to achieve MDG1 together other members forming the consortium on the topic dealing with food security.

The superb contributions during the year by our various National Committees and Workbodies collectively reflect our strength as usual. Agricultural water management is increasingly acknowledged as the significant contributor in a world that is getting increasingly ‘water scarce’. The Annual Report brings out our move towards addressing this challenge; and the special highlight of this year has been AgWA (Agricultural Water for Africa) – which we fully supported. The signing of a MoU with Iran is yet another milestone. The training and research component in this MoU enables the possibilities of giving new directions in the years ahead to support IPTRID.

The Central Office had endeavoured its might to enhance the quality of the Annual report. A few changes in its contents and look might be discernable. I look forward for your valuable suggestions in making this report a true mirror reflecting the year long ICID actions in moving towards fulfilling its mission objectives, worldwide.

M. Gopalakrishnan
Secretary General

Network Countries

Active Members

Sl. No.	Member Active	Acronym	Year of Joining
1.	Afghanistan	AFGICID	2008
2.	Australia	ANCID/IAL	1952
3.	Austria	AUNCID	1954
4.	Bangladesh	BANCID	1973
5.	Brazil	ABID	1970
6.	Canada	CANCID	1956
7.	Chile	CHICID	1979
8.	China	CNCID	1963
9.	Chinese Taipei Committee	CTCID	1969
10.	Croatia	CRCID	1993
11.	Cyprus	CYCID	1955
12.	Czech Republic	CZNC-ICID	1997
13.	Egypt	ENCID	1950
14.	Estonia	ESTICID	2001
15.	Ethiopia	ETCID	1976
16.	Fiji	FIJICID	2010
17.	Finland	FINCID	2000
18.	France	AFEID	1953
19.	Germany	GECID	1957
20.	Greece	GRCID	1957
21.	Guyana	GUCID	1957
22.	Hungary	HUCID	1955
23.	India	INCID	1950
24.	Indonesia	INACID	1950
25.	Iran	IRNCID	1955
26.	Iraq	IRQCID	2006
27.	Ireland	IRCID	1978
28.	Israel	ISCID	1950
29.	Italy	ITAL-ICID	1950
30.	Japan	JNC-ICID	1951
31.	Kazakhstan	KAZCID	2006
32.	Korea	KCID	1970
33.	Kyrgyz Rep.	KYRCID	2004
34.	Lithuania	LNCID	1994
35.	Macedonia	MAKCID	1995
36.	Malaysia	MANCID	1958
37.	Mali	AMID	2005
38.	Mexico	MXCID	1951
39.	Morocco	ANAFIDE	1959
40.	Myanmar	MINCID	1962
41.	Nepal	NENCID	1973
42.	Netherlands	NETHCID	1950
43.	Nigeria	NINCID	1970
44.	Niger	ANID	2007
45.	Pakistan	PANCID	1953
46.	Philippines	PNC-ICID	1956
47.	Portugal	PNCID	1954
48.	Romania	CNRID	1992
49.	Russia	RUCID	1955
50.	Saudi Arabia	SACID	1977
51.	Serbia (Erstwhile Yugoslavia)	YUGCID	2002
52.	Slovenia	SINCID	1992
53.	South Africa	SANCID	1993
54.	Spain	CERYD	1955
55.	Sri Lanka	SLNICID	1950
56.	Switzerland	CH-AGRAM	1951
57.	Syria	SYCID	1962
58.	Thailand	THAICID	1950
59.	Turkey	TUCID	1954
60.	UK	ICID.UK	1951
61.	Ukraine	UACID	1996
62.	USA	USCID	1951
63.	Uruguay	URUCID	2007
64.	Uzbekistan	UZNICID	1994
65.	Zambia	ZACID	1966

Members 'Deemed Inactive'

66.	Algeria	CNAID	1965 (1999) ¹
67.	Angola	ANGCID	1975 (1994)
68.	Argentina	ARCID	1975 (2004)
69.	Belgium	BELCID	1988 (1997)
70.	Bulgaria	BNCID	1960 (2006)
71.	Colombia	INAT	1966 (2003)
72.	Dominican Republic	DOMCID	1961 (1986)
73.	Ecuador	EDORCID	1959 (1985)
74.	Ghana	GHANCID	1958 (1982)
75.	Honduras	HOCID	1979 (1999)
76.	Ivory Coast	IVCID	1969 (1982)
77.	Jordan	JORCID	1978 (2003)
78.	Kenya	KENCID	1977 (2003)
79.	Lebanon	LEBCID	1964 (1976)
80.	Libya	LICID	1988 (2000)
81.	Madagascar	MADCID	1983 (1986)
82.	Malawi	MLCID	1967 (2004)
83.	Mozambique	MOCID	1978 (2006)
84.	Panama	PANACID	1980 (1990)
85.	Peru	PERU-ICID	1965 (1973)
86.	Poland	POCID	1967 (2006)
87.	Senegal	SENCID	1966 (1992)
88.	Slovak Republic	SKNC-ICID	1996 (2006)
89.	Sudan	SUCID	1964 (2003)
90.	Surinam	SURCID	1956 (1985)
91.	Tanzania	TANCID	2000 (2006)
92.	Tajikistan	TAJCID	1997 (2003)
93.	Tunisia	TUNCID	1960 (1963)
94.	Uganda	UGCID	1963 (1983)
95.	Venezuela	VENCID	1963 (1982)
96.	Vietnam	VICID	1960 (2003)
97.	Zimbabwe	ZICID	1955 (2001)

Members 'Withdrawn in the past on their own'

98.	Cuba	CUCID	1970 (1981) ²
99.	Denmark	DENCID	1981 (1986)
100.	New Zealand	NEWCID	1979 (1986)

Members 'Admitted but yet to pay their Subscription'

101.	Azerbaijan	AZERCID	2005 ³
102.	Burkina Faso	BURCID	2000
103.	Cameroon	CAMCID	2009
104.	Chad	ATID	2003
105.	Jamaica	JAMICID	2008
106.	Mauritius	MAUCID	1992
107.	Mongolia	MONGCID	1993
108.	Sao Tome & Principe	SAOCID	1985
109.	Turkmenistan	TURMICID	1998
110.	Yemen	YECID	1993

Region-wise Status of ICID Memberships as on 31 March 2010

Region	Active	Deemed to be inactive	Admitted but not paid sub scription	Withdrawn	Total
Africa	8	15	5	-	28
Americas	7	9	1	1	18
Asia & Oceania	26	4	4	1	35
Europe	24	4	-	1	29
Total	65	32	10	3	110

¹Year of becoming inactive²Year of withdrawal³Year of admission

ACTIVE MEMBERS (65)
NETWORK COUNTRIES (45)
NON-MEMBERS

Legend: Green = Active Members (65), Blue = Network Countries (45), Yellow = Non-Members

Map labels include: ARCTIC OCEAN, NORTH ATLANTIC OCEAN, SOUTH ATLANTIC OCEAN, INDIAN OCEAN, PACIFIC OCEAN, NORTH PACIFIC OCEAN, SOUTH PACIFIC OCEAN, EQUATOR, TROPIC OF CANCER, TROPIC OF CAPRICORN, GREENLAND (DENMARK), CANADA, U.S.A., MEXICO, UNITED STATES OF AMERICA, BRAZIL, ARGENTINA, PERU, BOLIVIA, PARAGUAY, CHILE, AUSTRALIA, NEW ZEALAND, FIJI, TONGA, VANUATU, SOLOMON ISLANDS, PAPUA NEW GUINEA, FIJI, TONGA, VANUATU, SOLOMON ISLANDS, PAPUA NEW GUINEA, FIJI, TONGA, VANUATU, SOLOMON ISLANDS, PAPUA NEW GUINEA.

Management

ICID has an active membership of 65 countries. The Commission has 3 Administrative Committees, 3 Permanent Committees, 24 Workbodies, and 2 Task Forces, and a high level Council viz., International Executive Council (IEC). The IEC governs ICID activities and is supported by Management Board (MB) in between the Council meetings.

INTERNATIONAL EXECUTIVE COUNCIL (IEC)

The International Executive Council (IEC) is vested with the management of the affairs of the International Commission on Irrigation and Drainage (ICID). The IEC considers all matters of policy which may be initiated or sponsored by any member National Committee or Office Bearer or by the Management Board and may itself initiate and determine or otherwise advise and lay down any matter of policy. All matters affecting the executive or administrative function and financial liabilities of ICID must come up before the Council and its decision shall be conclusive. The IEC consists of the Office Bearers and representative from each National Committee and meets annually.

MANAGEMENT BOARD (MB)

Mandate: The Management Board (MB) is responsible with the Central Office (CO) for the 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.

Chairman: Prof. Dr. Chandra A. Madramootoo, President, ICID (Canada).

Members: (1) VPH Dr. Hector M. Malano (Australia), Chairman, PCTA; (2) VPH Dr. Saeed Nairizi, Chairman, PFC; (3) VPH Dr. Gao Zhanyi (China), Chairman PCSPOA (up to December 2009); VP Dr. A. Hafied A. Gany (Indonesia, Chairman, PCSPOA (from December 2009); and (4) Er. M. Gopalakrishnan, Secretary General, ICID.

Management Team for ICID Journal (MT-JOUR)

Mandate: The Management Team for ICID Journal (MT-JOUR) shall be a special committee, and will remain as an 'ad hoc' sub-committee of Management Board to assist it in the administrative matters of managing the Journal, including related financial aspects, such as pricing, royalty, etc.

Members: (1) PH Bart Schultz, Chairman and Convener (The Netherlands); I van Hofwegen (The Netherlands); (3) President Dr. Chandra A. Madramootoo (Canada); (4) VPH Larry D. Stephens, Chairman, C-PR&P (USA); and (5) Er. M. Gopalakrishnan, Secretary General, ICID.

STAFF COMMITTEE (SC)

Mandate: The Staff Committee (SC) 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.

Chairman: Prof. Dr. Chandra A. Madramootoo, President, ICID (Canada).

Members: (1) VPH Dr. Saeed Nairizi, Chairman, PFC, (2) VP A.K. Bajaj, Chairman, INCID and (3) Er. M. Gopalakrishnan, Secretary General, ICID.

Screening Committee

Mandate: To deal with the matters pertaining to promotion, career progression and other in respect of the Central Office staff

Members: (1) Er. M. Gopalakrishnan, Secretary General, ICID, Chairman; (2) Chairman, INCID or his representative, Member; and (3) One Scientist/Engineer of a level of Joint Secretary or higher in the Government of India.

OFFICE BEARERS COMMITTEE (OBC)

Mandate: The Office-Bearers Committee (OBC) 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, orientation and overall functioning of ICID. One of the primary duties of the OBC is to make recommendations for filling the vacancies among Office Bearers.



ICID OFFICE BEARERS



PRESIDENT

Prof. Dr. C. A. Madramootoo
(2008 - 11)
Canada



**SECRETARY
GENERAL**

Mr. M. Gopalakrishnan
(2004 - 10)

VICE PRESIDENTS



Prof. Peter Kovalenko
Ukraine



Dr. A. Hafied A. Gany
Indonesia
(2007 - 2010)



Engr. Dr. Illahi B. Shaikh
Pakistan



Dr. (Mrs.)
Samia El-Guindy
Egypt



Mr. Shinsuke Ota
Japan
(2008 - 2011)



Prof. Lucio Ubertini
Italy



Dr. Willem F. Vlotman
Australia

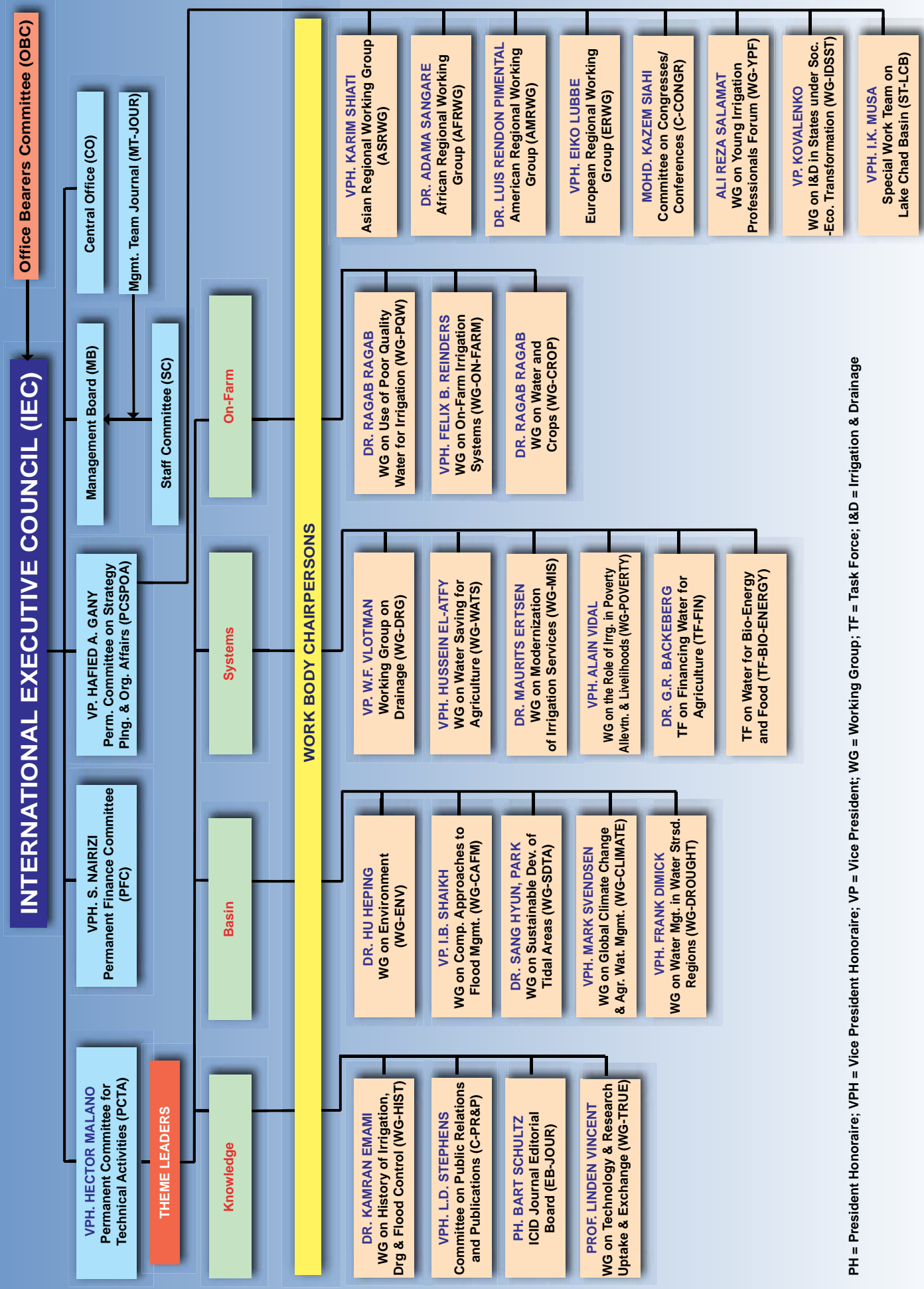


Dr. Laszlo G. Hayde
Hungary



Mr. A. K. Bajaj
India

(2009 - 2012)



PH = President Honoraire; VPH = Vice President Honoraire; VP = Vice President; WG = Working Group; TF = Task Force; I&D = Irrigation & Drainage

Report From Member Countries

During the year 2009-10, the following National Committees reported about nomination of their new Chairs/Presidents, other Office Bearers and new contacts:

AFGICID, AFGHANISTAN



Afghanistan joined ICID and became active with effect from September 2009. Mr. Shojaudin Ziaie, Deputy Minister for Water, Ministry of Energy and Water (MEW) is the Chairman of the Afghanistan National Committee (AFGICID). Contacts: Main Building of Ministry of Energy and Water, Opposite Sanatorium Road, Main Darulaman Road, Kabul, Afghanistan, Tel: +93 752004810, E-mail: Shojaudin_Ziaie@yahoo.com.

Mr. Naseer Ahmad Fayez is the new focal point for ICID in Afghanistan. Mr. Fayez is General Director of Irrigation Department of Ministry of Agriculture, Irrigation and Livestock. He can be contacted at naseer.fayez@mail.gov.af.



ICID-NCA/IAL, AUSTRALIA

Dr. Willem F. Vlotman is the new Chairman of the National Committee of Australia (ICID-NCA). Many professionals comprising Irrigation Australia Limited (IAL) with an interest in irrigation, drainage and flood management internationally

are members of the ICID-NCA. Vice President Dr. Vlotman has worked for most of his career in agricultural water management. Currently he holds the position of Assistant Director, Basin Plan Modelling with the Murray-Darling Basin Authority (MDBA), Canberra. Contacts: 2/21 Gordon Withnall Crescent, Dunlop, ACT 2615, Australia. Tel: +61-(0)2-6259 2424 (H), +61-(0)2-6279 0175 (W), Fax: +61-2-6279 0562, E-mail: Willem.Vlotman@mdba.gov.au, vlotmanwf@bigpond.com.

BANCID, BANGLADESH

Mrs. Quamrun Nahar Khanam has taken over as the new Chairman of the Bangladesh National Committee (BANCID). Contacts: Ministry of Water Resources, Government of the People's Republic of Bangladesh, Dhaka-1000. Tel: +880-2-7167473, Fax: +880-2-7-162400, E-mail: quamrun_nahar@yahoo.com.

Mr. Md. Ahasan Ullah has taken over as the new Member-Secretary of the BANCID. Contacts: House -13, Road-4, Dhanmondi R/A Dhaka-1205, Bangladesh, Tel: +88 02-9669935, Fax : +88 02-9668646;E-mail: jrjb@bdcom.net, Website: www.jrjb.gov.bd.

CANCID, CANADA

McGill University Board of Governors has reappointed President Chandra A. Madramootoo as Dean of the Faculty of Agricultural and Environmental Sciences for a further five-year term. He was congratulated by the Board of Governors for the leadership that he has shown regarding finding solutions to global food security. ICID fraternity heartily congratulates Prof. Madramootoo on this occasion and hopes to derive more from his leadership.

CNCID, CHINA

Mr. Gao Lihui, has assumed the office of the Executive Secretary, Chinese National Committee on Irrigation and Drainage (CNCID). Contacts: China Institute of Water Resources and Hydropower Research (IWHR), 20 Chegongzhuang West Road, P.O. Box 366, 100044, Beijing, China. Tel: +86 10 6878 6506, Fax: +86 10 6845 7179, E-mail: cncid@iwhr.com.

FIJICID, FIJI

Fiji's application for the membership of ICID was accepted at the 60th International Executive Council (IEC) meeting held in New Delhi in December 2009. Fiji has an irrigated area of 1867 ha and 6000 ha under drainage and flood control. Fiji National Committee (FIJICID) has



become active with effect from the year 2010. With the joining of Fiji, the number of active member countries in ICID has become 65. Contacts: Mr. Lakshman Mudaliar, Director, Land and Water Resources Management (LWRM), 1292 Suva, Republic of the Fiji Islands. Tel: +679 338 3155, Fax: + 679 338 3546, E-mail: lmudaliar@govnet.gov.fj; and Dr. Richard Beyer, Permanent Secretary for Agriculture, Ministry of Agriculture and Primary Industries, Republic of the Fiji Islands, E-mail: Richard.beyer@govnet.gov.fj.



AFEID, FRANCE

Mr. François Brelle has assumed the charge as the new President of the French National Committee of ICID (AFEID) in place of Late Vice President Hon. Dr. Henri Tardieu. Contacts: Le Directeur Technique de la Société du Canal de Provence Le Tholonet - CS 70064, 13182 Aix-en-Provence Cedex

05, France. Tel: +33 4 42 66 70 76, Fax: +33 4 42 66 70 80, E-mail: afeid@cemagref.fr, francois.brelle@canal-de-provence.com, Website: <http://www.canal-deprovence.com/>.

ETCID, ETHIOPIA

The contacts of Engr. Etafa Emama Ligdi, Acting Secretary, Ethiopian National Committee on Irrigation and Drainage (ETCID) are - Research Coordinator (Water Resources and Watershed Management), Ministry of water Resources (MoWR), P.O. Box: 5744/5673; Addis Ababa, Ethiopia, Tel: +251 0116 611111 (Ext.390) (Office), +251 0116 515578 (wireless), Fax: +251-1-610710, Mobile: +251 911 121725, E-Mail: etcid@yahoo.com; etafa_emama@yahoo.com.

INACID, INDONESIA

The new address of Indonesian National Committee of ICID (INACID) is - 8th Floor, the New Building, Directorate General of Water Resources (DGWR), Ministry of Public Works Jalan Pattimura No. 20/ Perc. No.7, Kebayoran Baru Jakarta Selatan, 12067, Indonesia; Tel: +62-021-723-0318, Fax: +62-021-723-0317, E-mail: secretariat@icid2010.org; inacid_indonesia@yahoo.co.id.

ISCID, ISRAEL

Mr. Yitzhak Kiriati is the new representative of Israeli National Committee (ISCID), replacing the former representative Ms. Ronit Golovaty. Contacts: Executive, Agrotechnology, The Israel Export and International Cooperation Institute, 29 Hamered Street, Tel-Aviv 68125, Israel. Tel: +972 03 5142907, Fax: +972 03 5142985, E-mail: kiriati@export.gov.il.

MANCID, MALAYSIA

Malaysian National Committee on Irrigation and Drainage (MANCID) has launched its new official website as www.mancid.org.my. Contact: Hj. Mohd Azmi bin Ismail, Secretary, MANCID, Email: info@mancid.org.my; mohdazmi@moa.gov.my.



PANCID, PAKISTAN

Mr. Zarar Aslam has assumed as the new Chairman of Pakistan National Committee of ICID (PANCID) in place of Vice President Engr. Dr. Illahi B. Shaikh. Contacts: Chief Engineering Adviser/ Chairman, Federal Flood Commission/ Chairman PANCID, Building No. 6, Sector G-5/1, Islamabad, Pakistan. Tel: +92-51-9244600, Fax: +92-51-924462, E-mail: pakfloodcommission@hotmail.com.

PNCID, PORTUGAL

Eng. José Augusto Rodrigues Estevao is the new President of the Portuguese National Committee on Irrigation and Drainage (PNCID). He is the General Director of the Direcção- Geral de Agricultura a Desenvolvimento Rural of the Ministry of Agriculture, Rural Development and Fisheries, replacing the former General Director Eng. Carlos Sao Simao de Carvalho, upon his superannuation. Contacts: Av Afonso Costa, No. 3, 1949-002 Lisboa, Portugal. Tel: +351 218 442 200, Fax: +351 218 442 202, E-mail: dgadr@dgadr.pt, Website: <http://www.dgadr.pt>.

CNRID, ROMANIA

The new contacts of the of Romanian National Committee on Irrigation and Drainage (CNRID) are - Prof. dr. eng. Ion Nicolaescu, President, Sos. Oltenitei 35-37, Sector 4, Bucuresti, Romania. E-mail: Centrala@anif.ro, Website: <http://www.anif.ro>.



CTCID, CHINESE TAIPEI

Prof. Gwo Hsing Yu has taken over as the new Secretary General of the Chinese Taipei Committee on Irrigation and Drainage (CTCID). Dr. Yu holds a Ph.D. in Civil Engineering from Purdue University, U.S.A in 1986. He specializes in Statistical and Stochastic Hydrology, and Water Resources Management and Policy. Contacts: Department of Water Resources and Environmental Engineering, College of Engineering, Tamkang University, P.O. Box 1-8 Danshuei, Taipei City 25199, R.O.C., Chinese Taipei. Tel: +886-2-2625- 598 Extn. 677, Fax: + 886-2-2621-0370, E-mail: ctcid@water.tku.edu.tw



National Committees of India, Iran, Italy, Malaysia, Netherlands, USA, Ukraine, and Uzbekistan have reported about their activities carried out during the period April 2009 to March 2010.

INCID, INDIA

Indian National Committee on Irrigation and Drainage (INCID) hosted the 60th International Executive Council (IEC) meeting and 5th Asian Regional Conference (ARC) of ICID from 6 to 11 December 2009 at New Delhi. The event marked the 60th anniversary of the foundation of ICID in India. The theme of the 5th Asian Regional Conference was "Improvement in Efficiency of Irrigation Projects through Technology Up-gradation and Better Operation and Maintenance". About 800 delegates from over 40 countries participated in the event.

The Conference was inaugurated by Hon'ble Prime Minister Dr. Manmohan Singh. Mr. Pawan Kumar Bansal, Hon'ble Union Minister of Water Resources. Hon'ble Union Finance Minister Mr. Pranab Mukherjee was the Chief Guest for the Closing Ceremony. Other dignitaries who graced the event were Dr. Montek Singh Ahluwalia, Deputy Chairman, Planning Commission, Mr. Vincent H. Pala, Hon'ble Minister of State for Water Resources, Mr. Sachin Pilot, Hon'ble Minister of State for Communications and Information Technology, Mr. U.N. Panjari, Secretary of Ministry of Water Resources, and Prof. Dr. Chandra A. Madramootoo, President of ICID.

The 26th meeting of the newly constituted INCID was held under the Chairmanship of Mr. A. K. Bajaj, on 10 March 2010 at the Central Water Commission (CWC), New Delhi. The Ministry of Water Resources (MOWR) through INCID



Photo Caption VP A.K. Bajaj at the inaugural of WWD at New Delhi

is funding 55 research projects related to irrigation and drainage. These research projects are carried out by various research institutes in the country. Appraisal and monitoring of these projects are being carried out by INCID during their annual meetings involving an independent review. During 2009-10, INCID has brought out two publications "History of Irrigation Development in Orissa", and "Water Resources Development in India". The latter was released on the occasion of the 5th ARC. A special postal cover to mark the 'Diamond jubilee' (60th year of ICID) was also released by the Minister of State for Communications and Information Technology.

INCID has actively participated in the World Water Day 2010 celebrations organised by the Ministry of Water Resources, Government of India.

IRNCID, IRAN

Under the aegis of the MoU among the Iranian National Committee (IRNCID), the German National Committee (GECID), and the Deutsch Water History Association (DWhG), 18 German delegates visited ancient historic hydraulic structures in Iranian cities of Tehran, Qom, Kashan, Isfahan, Yazd, and Shiraz in May 2009. Similarly, at the invitation of the DWhG and GECID, 16 Iranian irrigation professionals visited various hydraulic structures, research centers, and Jugendherberge Kassel University in Germany in August 2009. Dr.-Ing. Klaus Röttcher and Professor Henning Fahlbusch organized the technical visit successfully. The visit also covered Bergpark Wilhelmshöhe, one of the Germany's attractive water parks, Steinhof Sewage Treatment Plant (STP), Braunschweig agricultural center and farms, flood reservoir dams of Ehringen and Twiste, Landgrave Carl Canal, and many other water related places.



12th IRNCID Seminar

IRANCID has brought out the following publications translated in Persian:

FAO publication - Unlocking the Water Potential of Agriculture; (103 Pages, 1000 copies, 2010); Proceedings

of the 12th Seminar of IRNCID - Irrigation Management in Iran, Challenges and Perspectives (474 pages, 600 copies, 2010); ICID publication - Planning and Designing of Micro irrigation in Humid Regions; (63 pages, 1000 copies, 2009); ICID publication - The Watsave Scenarios (151 pages, 200 copies, 2009; and Drain Envelopes (116 Pages, 1000 copies, 2009). Besides these publications, four issues of the IRNCID Newsletter (No. 73, 74, 75 & 76) were issued and distributed among members.

The workshops and meetings held during the year 2009-10 comprised - Meetings on 'Irrigation Efficiency' (20 December 2009) and on 'Sustainable Development of Water: Virtual Water Pivotal Role' which was jointly organized with Water

Resources Management Company (15 July 2009). The 6th Workshop on Drainage and Environment organized jointly with Khuzestan Water and Power Authority, and Khuzestan Regional Committee on Irrigation and Drainage in Ahwaz City, Khuzestan province (6 January 2010); 12th Seminar on 'Irrigation Management in Iran, Challenges and Perspectives', Tehran (24-25 February 2010).

IRNCID also widely disseminated announcement/ fliers and launched a special website (in 9 languages) for the 21st ICID Congress on Irrigation and Drainage, 8th International Micro Irrigation Congress, and 62nd IEC Meeting to be held in Tehran, 15 – 23 October 2011.

ITAL-ICID, ITALY

A seminar was organized by ITAL-ICID on the occasion of the Padova fair on 24-26 June 2009. The theme of the seminar was: "The water system". There were 11 oral paper presentations from members of Ministry of Agriculture, FAO, Agriculture Research Council, General Secretaries of Basin Authorities, Land Reclamation Consortia.

A meeting was also organized on 27 October 2009 at the headquarters of Ministry of Agriculture on "Agriculture and planning of hydrographical districts management". The lectures were delivered by members of the Ministry of the Agriculture, INEA General Director, ANBI General Director, and by the General Secretaries of some Basin Authorities.

The 11th ITAL-ICID meeting for 'Land Reclamation' was organized jointly with Regione Lazio on 28th January 2010 at the headquarters of Regione Lazio to discuss as how to improve the flow of information on "Land Reclamation, environmental conservation and the renewable energies", The meeting was opened by Ms. Zanferrari, President ITAL-ICID.

ITAL-ICID is an active partner of the Europrojects WEMED and GEWAMED that were brought into action with the aim to build an extensive knowledge base for an efficient use of the irrigation water and for the mainstreaming of gender dimension into IWRM processes.

In October 2009, ITAL-ICID published the 4th volume of "Land reclamation, irrigation and flood protection in Italy over the centuries" as its contribution to the activities of the ICID Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST). ITAL-ICID also published a document on "Water, Ecosystem and Agriculture" for the better understanding of interaction among agriculture, water and land policy and for a sustainable irrigation management in Lazio Region. An article titled "Monitoring drought severity in agriculture through a synthetic index based on dry periods: a case study in the Mediterranean basin" submitted by the ITAL-ICID was published in the Irrigation and Drainage, volume 58, Issue 5, December 2009.

An ITAL-ICID delegation participated to the 60th International Executive Council (IEC) and pre-council meeting of workbodies held at New Delhi in December 2009.

INACID, INDONESIA

ICID has joined the UN-Water Task Force on Water and Climate through WG-CLIMATE. Asian Regional Task Force on 'Climate Change and Irrigation' (ARTF-CC) of ASRWG, focuses on studying the impacts and Strategies for addressing / adopting the challenges of climate change in irrigation and water management for sustainable agriculture. A side meeting between Vice Presidents Shinsuke Ota (Japan) and Dr. A. Hafied A. Gany (Indonesia) was held on 3rd March 2010 at Tokyo in Japan for discussing the activities related to ARTF-CC.

Indonesia is one of the most important countries in South East Asia whose experiences are to be incorporated in the ARTF-CC report. Appropriate case study formats, proposed work assignment and further action plan of ARTF-CC were discussed in the VPs meeting. On the side lines, a meeting with Director- General of the Ministry of Agriculture, Forestry and Fisheries (MAFF) of Japan and representatives from



VPs Hafied Gany and Shinsuke Ota at MAFF, Japan

Japanese Institute of Irrigation and Drainage (JIID) and Rural Development Bureau, MAFF was also held.

MANCID, MALAYSIA

Malaysian National Committee on Irrigation and Drainage (MANCID) in collaboration with Myanmar National Committee of Irrigation and Drainage (MNCID) organized a technical visit



MANCID-MNCID meeting

to Myanmar Irrigation Department (MID), Yangon on 15-19 June 2009. Ten members of MANCID participated in this visit. The delegation was lead by Vice President Hon., Dato' Mohd Azhari bin Ghazalli, Chairman MANCID. The program started with a briefing on the MID background, followed by detailed explanation by Mr. Hla Baw, Deputy Director General of MID on Power Generation Development Projects from Irrigation Canal. Both the national committees discussed on the potential future cooperation projects. This meeting was chaired by Mr. Ohn Myint Deputy Minister of Agriculture and Irrigation, Union of Myanmar who was also the Chairman of MNCID. The meeting concluded that the issues of multi-functionality of irrigation, irrigation demand management and irrigation management transfer (IMT) are the main concerns of Myanmar. MANCID and MNCID agreed to collaborate in technology development and transfer on irrigation and drainage in near future.

The MANCID Colloquium on Commercial Paddy Farming was held on 23-24 November 2009 at the Putrajaya Shangri-La. The key areas of concern and recommendations emerged were:

Increasing the rice yield is the main concern of commercial paddy farming as the investors' profit depends on the crop



Participants at MANCID Colloquium

yield. The major bottlenecks in increasing rice yield were highlighted as inadequate infrastructures, poor on-farm water management, water shortage, and lack of appropriate agricultural practices, small size farms, and excessive use of water, fertilizers and other inputs. It was therefore recommended to develop high yielding and drought tolerant varieties, build low cost and highly effective infrastructure, consolidate optimum land size for the potential rice growers (8 ha per farmer), implement the exit plan for the older farmers and those producing low yields, improve irrigation water management, plan for proper utilization of natural resources and precise applications of chemicals and fertilizers, and implement technology transfer program. It was also recommended that the Government should review the policy to attract private sector involvement in paddy and rice industry by involving participation of all stakeholders (farmers, combine harvester service operators, scientists, other service providers, government agencies, etc.).

At the 60th IEC meeting and 5th Asian regional Conference held in New Delhi during 5-11 December 2009, MANCID was represented by Prof. Ir. Mohd Amin Soom, Vice Chairman of MANCID and . Dr. Nor Azazi Zakaria and Dr. Mohammad Che Husin, Executive Members. A citation plaque was presented to Vice President Hon. Dato' Azahari Mohd Ghazalli, for his commendable service and guidance to the ICID activities during his tenure as VP of ICID for the period 2006-2009.

NETHCID, THE NETHERLANDS

The Netherland National Committee on Irrigation and Drainage (NETHCID) participated in the 23rd European Regional Conference (ERC) held on 18-24 May 2009 at Lviv, Ukraine and presented 2 papers. It also participated in the 60th International Executive Council (IEC) and 5th Asian Regional Conference held during 6-11 December 2009 at New Delhi, India.

13th NETHCID Symposium on 'Water management and spatial planning' was organized on 13 October 2009 in Arnhem.



Dr. Ian Barker and Prof. Dr. ir. Nick van de Giesen

SYCID, SYRIA

Dr. Ir. Karim Shiati, Vice President, ICID and Chairman of ICID's Asian Regional Working Group (ASRWG) visited Syria in September 2009. The purpose of his visit was to enhance the regional cooperation among the National Committees in the West Asia. He met H. E. Eng. Hussein Makhlof, Director General, Commission for Water Resources, Ministry of Irrigation, Syrian Arab Republic.

The visit commenced with a briefing on the organizational changes of the Syrian National Committee on Irrigation and Drainage (SYCID) by Eng. Makhlof, followed by a presentation of Dr. Shiati on activities of the Iranian National Committee on Irrigation and Drainage (IRNCID). Mr. Joseph Jreige, the new secretary of SYCID also participated in the meeting.



VPH Karim Shiati with SYCID Office Bearers

USCID, USA

The USCID Irrigation District Specialty Conference was held during 3-6 June 2009 at Reno in Nevada, USA. The Conference theme was 'Irrigation District Sustainability: Strategies to Meet the Challenges'. A half day tour to the Derby Diversion Dam demonstrating how the restoration of this facility plays into the politics of the Truckee River was the starting event of the Conference. General Manager of Oakdale Irrigation District (OID) Steve Knell talked about how "sustainability" plays a part in the operations plan for their district. Executive Director of the Association of California Water Agencies in Sacramento Mr. Timothy Quinn's presentation evaluated the past and present practices of the State with regard to water management. Cortney Duke gave a solid and practical presentation on what irrigation districts need to consider when they accept municipal water into their canals. The Conference concluded with three outstanding presentations in a Plenary Session which provided interesting insights on a variety of water issues affecting irrigation district sustainability. Conference Proceedings are available from USCID. Contact: Mr. Larry D. Stephens, Executive Vice President, USCID, E-mail: stephens@uscid.org.

The USCID 5th International Conference on Irrigation and Drainage was held during 3-6 November, 2009 in Salt Lake City, Utah. The Conference theme was 'Irrigation and Drainage for Food, Energy, and the Environment'. Water professionals are facing new challenges related to increasing water scarcity, and competing uses of water. These uses include water for food, energy, and the environment. More



Michael Gabaldon, Director, Technical Resources, BR made Keynote presentation



President Chandra Madramootoo delivered the Keynote speech

than 120 people from eight countries attended the Conference. Twenty five delegates participated in a tour of the Jordanelle Dam and Hydroelectric Plant conducted by the Central Utah Water Conservancy District. The participants walked through the new state-of-the-art hydropower production and control facilities. After the visit to Jordanelle, the participants were able to participate in hands-on flow measurement

of "SonTek/ YSI Incorporated" to appreciate real-time flow measurement capabilities.

Luncheon speaker on 3 November 2009 was President Chandra Madramootoo. The opening plenary session began with outstanding presentations by Michael Styler, Executive Director of the Utah Department of Natural Resources; Kerry McCalman, Manager of the Bureau of Reclamation's Power Resources Office; Gene Shawcroft, Assistant General Manager of the Central Utah Water Conservancy District; James E. Ayars, Agricultural Research Service, Franklin E. Dimick of Dimick Water Resources Engineering; and Charles M. Burt of the California Polytechnic State University. The day was capped off by a 'Meet the Exhibitors Session' and a Welcome Reception/Exhibition.

The luncheon speaker on 5 November was USCID President and VPH Mark Svendsen. He discussed the Quality of Water Governance in the Middle East. Participants enjoyed an all-day tour of northern Utah including the Utah State University water lab and Campbell Scientific, manufacturer of instrumentation, data loggers and data acquisition systems on 6 November 2009. The Conference brought together water resource professionals from the U.S. and abroad involved in irrigation, drainage, and water resources planning.

UACID, UKRAINE

Ukrainian National Committee (UACID) together with the German National Committee (GECID) and the European Regional Working Group (ERWG) organized the 23rd European Regional Conference on "Progress in managing water for food and rural development" in Lviv, Ukraine during 17-24 May 2009.

The Conference discussed the issues of current importance on water and land resources management, especially it focused on progressive methods and technologies developed and applied in European countries.

More than 180 participants from 12 European and Asian countries took part in the conference. A post conference technical tour to acquaint with water and agricultural works of Ukraine was organized.

The members of UACID participated in the key water related events, both at the international and the national level. Members also participated in making quarterly reports of State Committee of Water Management on monitoring



(L-R) VP Eiko Lübke, Secretary General M. Gopalakrishnan, Mr. Yaroslav Panwa, Dy. Head of Lviv Regional State Administration, VP Peter Kovalenko, Dr. Vasyl Stashuk, Dr. Vasyl Vysochanskiy, Rector, Ivan Franco Nat. Agrarian Univ. of Lviv, and Volodymyr Stutynskiy, Rector Lviv Nat. Agrarian University

of waterworks facilities condition of Ukraine and evolving measures aimed at improvement of the state policy on an effective operation and sustainable development of water management in the country.

UzNCID, UZBEKISTAN

Uzbekistan National Committee on Irrigation and Drainage (UzNCID) under the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan has carried out its activities in accordance with the Plan of Works of 2009. During the 3 meetings held, matters related to technical rehabilitation of large pumping stations, improvement of land reclamation conditions of the irrigated lands, effective use of investments allocated for water management as well as other matters of importance like increase of soil fertility and rational use of water resources of the region were discussed. The members of UzNCID have attempted to put into practice the decrees of the President of the Republic of Uzbekistan and decisions adopted by the Government for improvement of water management. Members of the UzNCID have further rendered practical assistance to water users associations for distribution and rational use of water resources, construction of hydroposts, effective use of excavating machinery, land reclamation activities, effective use of credit (provided by the state and international financial institutions) in order to improve technical conditions of large pumping stations and hydro-technical structures of the Republic.

A number of seminars were organized together with the water user associations and farmers in the field of rational use of irrigation water, introduction of the improved methods

of irrigation (drip and sprinkler irrigation, etc.) and water accounting. Scientific and research journals, newsletters, technical information and other printed editions received from the ICID were systematically disseminated among specialists of the Ministry of Agriculture and Water Resources, and other research organizations of the Republic. Members of the UzNCID participated in the 5th General Assembly of the World Water Council held during 14-16 October 2009 in Marseilles, France. At this meeting the Republic of Uzbekistan participated for the first time as a full-fledged member. The Republic of Uzbekistan was the first state among the other CIS countries to become a member of the WWC. The country is closely collaborating with a number of international organizations, including United Nations Development Program, World Bank, Asian Development Bank, Swiss Agency on Cooperation and Development, Global Ecological Fund, and World Water Council.

Three members of the UzNCID participated at the 60th International Executive Council (IEC) meeting and 5th Asian Regional Conference held during 6-11 December 2009 at New Delhi. The UzNCID members discussed the work and financial plan for 2010 considering regular annual subscription to ICID. UzNCID acknowledged ICID Central Office support for their timely distribution of technical information and material related to irrigation and drainage.



Workbodies

ICID has three permanent committees to guide the activities of various workbodies. These permanent Committees are – (1) Permanent Committee on Strategy Planning and Organizational Affairs (PCSPOA), (2) Permanent Committee for Technical Activities (PCTA), and (3) Permanent Finance Committee (PFC). A schematic of ICID workbodies is shown in Figure 1. Regionwise share of irrigated area, number of members and workbodies represented by active member countries of ICID is shown in Figure 2. This section provides a brief on the mandate, membership, and activities of various committees / workbodies.

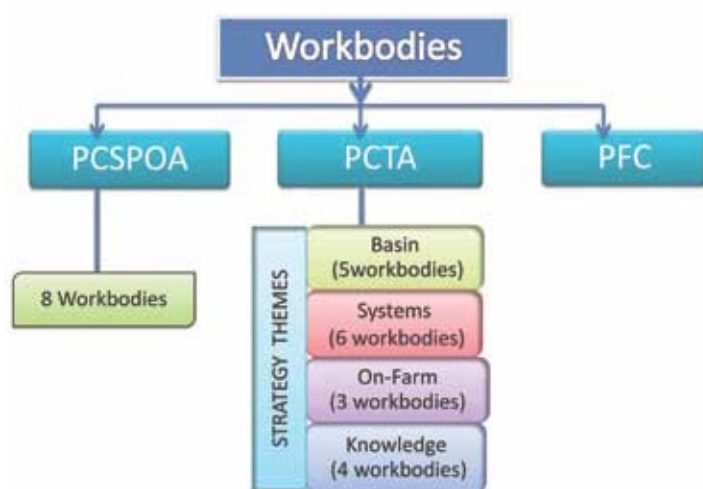


Figure 1. A schematic of ICID workbodies

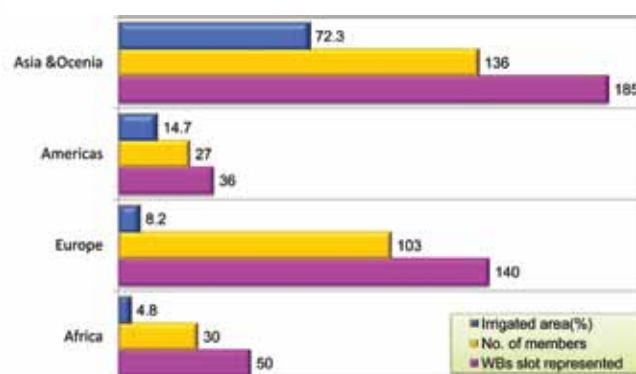


Figure 2. Regionwise share of irrigated area, number of members and workbodies represented by active member countries of ICID

Permanent Committee on Strategy Planning and Organizational Affairs (PCSPOA)

Mandate: The Committee undertakes issues related to strategic planning for ICID. The Committee coordinates the activities of Vice Presidents in their areas. The Committee also looks into the prospects of increasing the number of member countries and assisting the National Committees to become more active in their own countries to achieve the goals set for them from time to time.

Members: (1) VPH Dr. Hafied A. Gany, Chairman (Indonesia, 2007); (2) VP Shinsuke Ota, Vice Chairman (2009) (Japan, 2008); (3) VP Prof. Peter Kovalenko (Ukraine, 2007); (4) VP Dr. Illahi B. Shaikh (Pakistan, 2007); (5) VP Dr. (Mrs.) Samia El-Guindy (Egypt, 2008); (6) VP Prof. Ing. Lucio Ubertini (Italy, 2008); (7) VP Dr. Willem F. Vlotman (Australia, 2009); (8) VP Dr. Laszlo G. Hayde (Hungary, 2009); (9) VP Mr. A.K. Bajaj (India, 2009); (10) VPH Dr.-Ing. Eiko Lübke (Germany, 2006); (11) VPH Dr. Karim Shiati (Iran, 2006); (12) VPH Ir. Mohd. Azhari bin Ghazalli (Malaysia, 2006); and (13) M. Gopalakrishnan, Secretary General, ICID.



(From left) VP Hafied Gany, VPH Gao Zhanyi, and VP Shinsuke Ota

Ex-Officio Members: (1) Chairman, AFRWG; (2) Chairman, ERWG; (3) Chairman, ASRWG; (4) Chairman, AMRWG; (5) Chairman, WG-YPF; (6) Chairman, C-CONGR; (7) Chairman, WG-IDSST; (8) Chairman, LDCsAF; and (9) Chairman, ST-LCB

Permanent Observers: (i) FAO Representative; (ii) World Bank Representative; (iii) GWP Representative; and (iv) WWC Representative.

Activities: PCSPOA held its 20th meeting on 8 December 2009 at New Delhi, where 8 members, 4 ex-officio members and 4 observers belonging to 10 countries (China, Germany, Iran, Ukraine, Indonesia, Japan, Italy, India, Uzbekistan, and Korea) participated.

PCSPOA reviewed its membership in the light of retiring members (Vice Presidents) at the conclusion of the New Delhi IEC meeting and newly elected Vice Presidents at New Delhi IEC who would subsequently become members of PCSPOA. Dr. Hafied Gany took over as the new Chairman of the PCSPOA (until 2011) from the earlier chair PCSPOA Dr. Gao Zhanyi. The Committee also considered the membership nominations received for workbodies under it and made appropriate recommendations. Steps initiated for the membership drive to enroll more countries as members of ICID were reviewed. The Committee exhorted inactive NCs in all regions to activate themselves. The Committee noted the efforts made for reactivation of the inactive countries and membership of non-member countries. The Committee considered the VPs' reports on their efforts to strengthen regional cooperation and activity amongst NCs and discussed the new roles that can be assigned to VPs.

PCSPOA discussed the issue of strengthening and broad-basing of National Committees and exhorted the NCs to send a copy of their constitution to the CO and inform about modifications, if any. The Committee reviewed the tenures and activities of workbodies under it and made recommendations accordingly.

PCSPOA deliberated on the item regarding the strategy for communication and cooperation between ICID and other

organizations/NGOs including the farmers and other water users. The Committee encouraged the NCs to translate the ICID publications and technical documents into local languages so that local farmers could understand them better. The national committees could also develop a team of 'extension workers' to help the farmers come closer to ICID for exchange of information. National committees and ICID could organize technical workshops focused on matters of interest of farmers.

A memorandum of understanding between the Iranian National Committee (IRNCID) and Turkish National Committee (TUCID); and also among German National Committee (GECID), and Germany Water History Association have been signed to enhance the regional cooperation.

The Committee noted IRNCID's request that the issue of inviting private companies and international agencies/organizations to ICID family as members should be taken up. The Committee endorsed the involvement of institutions, organizations, companies and manufacturers in ICID activities. These organizations/ companies will bring in new knowledge base to ICID.

The Committee noted that the outputs of the Sessions under the Topic 2.3 and the finalised report posted on the ICID website. The Committee also noted that the President, ICID had taken a renewed interest in revamping IPTRID. The Committee was informed about the revised ICID Multilingual Technical Dictionary (MTD) which was updated and released in five languages – English, French, Chinese, Japanese and Russian.

Permanent Committee for Technical Activities (PCTA)

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

Members: (1) VPH Prof. Hector Malano, Chairman (Australia, 2005); (2) Mr. Bruno Molle, Vice Chairman (France, 2006); (3) VPH Larry D. Stephens, Secretary (USA, 2003); (4) VPH Dr. Hussein Ehsan El-Atfy (Egypt, 2005); (5) Prof. Daniele De Wrachien (Italy, 2005); (6) Dr. Yohei Sato (Japan, 2005); (7) Dr. Nikoley G. Kovalev (Russia, 2007); (8) Mr. Hassan B. Yuksel (Turkey, 2007); (9) VP Mr. A.K. Bajaj (India, 2008); (10) Mr. Husnain Ahmed (Pakistan, 2009); and (11) M. Gopalakrishnan, Secretary General, ICID.

Permanent Observers: (1) World Bank Representative; (2) FAO Representative; (3) IWMI Representative; (4) ISO Representative; (5) WWC Representative; and (6) Programme Manager, IPTRID
Ex-Officio Members: (1) All strategy theme leaders; and (2) Chairpersons of all workbodies under PCTA.

Activities: PCTA held its 29th meeting on 9 December 2009



(From left) Dr. Park Sang Hyun, President Madramootoo, VPH Hector Malano and VPH Larry Stephens

at New Delhi. The meeting was attended by 9 members and 17 observers belonging to 14 countries (Australia, France, USA, Italy, Japan, Russia, Turkey, India, South Africa, UK, The Netherlands, Korea Rep. of, Iran and Pakistan. Engr. Husnain Ahmed (PANCID) was accepted for the membership.

The PCTA noted the activities carried out by the various working groups and task forces. It was recommended to make free access to the updated version of the Multi-lingual Technical Dictionary (MTD) through the internet. The Committee recommended the Central Office to prepare a position paper on capacity building. The Committee further recommended to IEC that work plans of all workbodies be reviewed and coordinated and the Chairman or a representative should attend PCTA meeting to report workbody activities.

Dr. Vlotman, Theme Leader on Systems (ST.S) proposed to explore ways to reduce administrative aspects of workbodies during their meetings. It was also supported by the PCTA Chairman Malano. Mr. Bernard Vincent presented a report on Strategy Theme – Basin (ST.B) on behalf of VPH (late) Tardieu. Dr. Nairizi, Theme Leader – On-Farm (ST.OF) stressed that it is necessary to evolve simple techniques to manage irrigation scheduling and operation of surface irrigation systems. He emphasized the necessity of clearly defining the concept of irrigation efficiency in the context of irrigation practices at farm level and bringing out what is really a 'loss' of water with a focus on the effectiveness of irrigation water application rather than efficiency of distribution. He also recommended studying the basic question of actual crop water requirement against the conventional potential evapo-transpiration, which is used as

basis for irrigation water allocation.

PCTA noted ICID's cooperation with other international organizations and the UN organizations dealing with water in one form or another like UN Water, FAO, WWAP, IFAD, WMO, UNESCO; the strong coordination with WWC; IWMI; IWALC; ISO; IUCN, McGill University, Canada (in their efforts to look into Global Food Security by organizing annual conferences), to quote a few.

PCTA endorsed the theme and sub-themes of the Tehran Congress to be held in 2010-11.

PCTA also recommended the setting up of two new task forces viz. (i) Sedimentation of Reservoir; and (ii) Water for Bio-Energy and Food.

Permanent Finance Committee (PFC)

Mandate: The Permanent Finance Committee (PFC) shall be concerned with the financial matters of the Commission and aspects having significant financial implications. It will review the receipts and expenditures, advise the Council on the previous year's accounts and on the proposed or provisional budget; it 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) VPH Dr. Saeed Nairizi, Chairman (Iran, 2008); (2) VP Dr. Laszlo G. Hayde (Hungary, 2004); (3) VPH Dr. Alain Vidal (France, 2006); (4) Mr. Syed Raghieb Abbas Shah (Pakistan, 2006); (5) Dr. James Ayars (USA, 2007); (6) VPH Dr. Gao Zhanyi (China, 2007); (7) VP Mr. A.K. Bajaj (India, 2009); (8) Mr. Akiya Nakaza (Japan, 2009); and (9) Er. M. Gopalakrishnan, Secretary General, ICID.

Activities: PFC held its 30th meeting on 7 December 2009 in New Delhi, India in which 7 members and 10 observers, including four members honoraire were present. Two new nominations, received from India (Mr. A.K. Bajaj) and Japan (Mr. Akira Nakazawa), were accepted. Dr. Laszlo Hayde (Hungary) was nominated as the Vice Chairman of the PFC.

Secretary General M. Gopalakrishnan reported on the position of arrears of annual subscription and informed that in addition to 24 countries, which are in arrears and hence fall in the category of 'inactive', four more would be deemed to be 'inactive' with effect from 01 January 2010, if they had not cleared their arrears by end of 2009. It was agreed that the four countries in arrears for more than three years, would be given one more year to clear their arrears.

While considering the actions emerging out of PFC Internal Review, PFC noted that ICID would receive 50 percent share for the Congresses and 15 percent share for IEC meetings. Further, PFC recommended to the IEC that a minimum of 5 percent of the registration fee be paid to ICID for all ICID sanctioned Regional Conferences, Workshops and Specialty Conferences. Under this item, PFC Chair, VPH Nairizi reviewed the proposal



VPH Saeed Nairizi and VP Hafied Gany

that private memberships in ICID be offered. PH Peter Lee was of the view that such memberships be of non-voting corporate members. PFC recommended that an Ad Hoc Committee be named to develop a proposal for corporate membership.

PFC reviewed the progress on financial and administrative arrangements of ICID events upto May 2011, including 61st IEC meeting and 6th Asian Regional Conference in Yogyakarta, Indonesia from 10-16 October 2010, 62nd IEC meeting and 21st Congress in Tehran, Iran in October 2011, 3rd African Regional Conference, in Mali in 2011 and 25th European Regional Conference in The Netherlands in May 2011. The Indonesian NC representative agreed that the registration fee approved at the Lahore IEC meeting would be unchanged. The Iranian NC representative briefly reviewed the registration fees and plans for the Tehran events. NETHCID representative also outlined plans for the 25th European Regional Conference.

PFC then considered the audited accounts for the year 2008-09, forecast for the FY 2009-10 and the budget for FY 2010-11. PFC also considered the budgets for years 2011-12 and 2012-13.

Secretary General Gopalakrishnan then provided a glimpse to PFC about the emerging financial scenario of ICID and stated that due to lesser receipts from the past Congresses continually, the balancing cycle that was achievable in the past, with a three years frequency stood disturbed. He hoped that the situation would improve in the coming years, with several new measures to augment revenue from annual IEC, Regional Conferences and others, as has been recommended henceforth.



PCSPOA Workbodies

The Permanent Committee on Strategy Planning and Organizational Affairs (PCSPOA) encompasses 8 Workbodies. The following is a brief description about the mandate, membership, and key activities carried out by each of these working groups/ work team/ committee during the period April 2009 to March 2010.

African Regional Working Group (AFRWG)

Year of Establishment: 1994

Webpage: <http://www.afrwg.icidonline.org>

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) Dr. Adama Sangare, Chairman, 2009 (Mali, 2008); (2) Mr. Andrew Senewe, Vice Chairman (2009) (3) Engr. D.B. Madu, Secretary (2008) (Nigeria, 2008); (4) Ms. Raphaele Ducrot (France, 1999); (5) Mr. Makonnen Loulseged (Ethiopia, 2007); (6) Morocco representative; and (7) Secretary General, ICID.

Observers: (i) FAO Representative; (ii) World Bank Representative; (iii) IPTRID Representative (iv) Mr. Jean Syroganis Camara (Italy); (v) Mr. Adriano de Vito (Italy); (vi) Mr. Deric S. Mono (Zambia); (vii) Ms. Felicity Chancellor (UK); (viii) ARID Representative; (ix) SARIA Representative; and (x) AgWa Representative.

Activities: At its 20th meeting held at New Delhi on 6 December 2009, Dr. Adama Sangare (Mali) and Dr. Andrew Sanewe (South Africa) were elected as Chairman and Vice Chairman, respectively. The 3rd African Regional Conference that was to be held in Nigeria in 2009 was cancelled and will be held



Dr. Adama Sangare and VPH Felix Reinders

in September 2011 in Mali. The Mali National Committee (AMID) volunteered to host the 3rd AfrRC. During the meeting, Mr. Dembele, President AMID made a presentation on the land and water resources and the irrigation potential in Mali. A video on the success of the l'Office Du Niger (Large scale irrigation system covering more than 100,000 ha) was also shown.

FAO organized the AquaCrop Workshop on "Capacity development for farm management strategies to improve crop-water productivity using AquaCrop" from 27-31 July 2009 in Ouagadougou, Burkina Faso.

American Regional Working Group (AMRWG)

Year of Establishment: 2003

Mandate: To assist in the development of broad-based ICID National Committee in each Latin American country; to obtain and disseminate information on irrigation and drainage in Latin America; 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 (2004) (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; (8) Representative from Uruguay; and (9) Secretary General, ICID.

Observers: (i) VPH. Dr. Jose A. Ortiz F.-Urrutia (Spain); and (ii) Portuguese Representative.

Activities: The 6th meeting of the American Regional Working Group (AMRWG) was held on 07 December 2009 at New Delhi. It was decided to consolidate the WG membership so as to take up some activities related to the mandate. A workshop with a theme "Food Vs Fuel : Implications for Water Resources" was held preceding the meeting. Mr. Tollefson (Canada) facilitated the deliberations of the meeting. Dr. P. Srinivas Rao (ICRISAT, India) made presentation on 'Food and Fuel - Sorghum Program on Biofuel'.



Dr. Luis Rendon Pimentel

Asian Regional Working Group (ASRWG)

Year of Establishment: 1996

Webpage: <http://www.asrwg.icidonline.org/>

Mandate: To focus on common topics and issues; to enhance the transfer of appropriate technology in irrigation and drainage to and from the Asian Region; and to encourage membership and coordinate activities in the region.

Members: (1) VPH Karim Shiati, Chairman, 2006 (Iran, 1997); (2) Mr. Tei-Cheol Kim, Vice Chairman, 2007 (Korea, 2006); (3) Mr. Anthony J. Horton, Secretary, 2007 (Australia, 1997); (4) Mr. Khem Raj Sharma (Nepal, 1997); (5) Dr. Siripong Hungspreug (Thailand, 1998); (6) Mr. B.M. Yusupov (Uzbekistan, 1998); (7) Mr. T. Anwar Khan (Bangladesh, 1998); (8) Mr. Waseem Nazir (Pakistan, 1999); (9) Mr. Kuo, Sneng-Feng (Chinese- Taipei, 2001); (10) Mr. Sastrodihardjo Siswoko (Indonesia, 2002); (11) Mr. Taner Kimence (Turkey, 2006); (12) VP Shinsuke Ota (Japan, 2006); (13) Mr. Mohd. Abdul Nassir bin Bidin (Malaysia, 2007); (14) Mr. Wang Xiodong (China, 2008); (15) Mr. Ravinder Singh (India, 2009); and (17) Secretary General, ICID.

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



Participants at the 16th meeting of ASRWG



VPH Dr. Karim Shiati and Mr. Tai-Cheol Kim

Activities: ASRWG held its 16th meeting on 6 December 2009 at New Delhi, India in which 11 members and 32 observers participated. The group noted that the representatives from Myanmar and Saudi Arabia attended the ICID events after a long gap. The Chairman informed the members about the MoU between IRNCID and TUCID; and among IRNCID, GECID, and Deutsch Water History Association (DWHG) and cooperation with Syrian National Committee (SYCID).

The 5th Asian Regional Conference (ARC) was held on 9-11 December 2009 at New Delhi. Parallel to the conference, two special sessions viz. "Mekong River Commission (MRC) Initiative" and ICID-IWMI-INCID session on "Trends in Asian Irrigation" of the Group's interest were held.

The WG members noted the active role played by ICID in recent UN-Water meetings. Secretary General M. Gopalakrishnan informed that ICID Coordinated Topic 2.3 "Water and Food for ending poverty and hunger" during 5th World Water Forum in 2009. ICID has joined the UN-Water Task Force on Water & Climate through WG-CLIMATE and Task Force on "Climate Change and Irrigation (ARTF-CC)" of ASRWG.

Vice President Dr. Ota (Japan) presented the outcome of the ARTF-CC in the meeting. Dr. Masumoto Takao (Japan), Dr. Kim (Korea) and Dr. Shiati (Iran) presented case studies. The Chairman briefed the members on further progress about the UN Water Task Force on "Water and Climate".

European Regional Working Group (ERWG)

Year of Establishment: 1995

Webpage: <http://www.erwg.icidonline.org>

Mandate: To promote awareness about critical 'ICID relevant' water issues at all levels in Europe; to pay special attention to the environmentally sustainable water management in Europe; and to encourage membership and coordinate activities in the region.

Members: (1) VPH Dr.-Ing. Eiko Lübke, Chairman (2002) (Germany, 2002); (2) VP Prof. Dr. Peter Kovalenko, Vice Chairman, 2005 (Ukraine, 1999); (3) VP Dr. László Hayde, Secretary (2005) (Hungary, 2005); (4) VPH Prof. dr. Brane Maticic (Slovenia, 1996); (5) Dr. Michele Angelo Cuccaro (Italy, 1996); (6) Prof. Dr. Ion Nicolaesco (Romania, 1996);



VP László G. Hayde and VPH Eiko Lübke

(7) Mr. Pedro Eduardo da Cunha Serra (Portugal, 1996); (8) Mr. Nicos Tsiourtis (Cyprus, 1996); (9) Prof. Dr. Svatopluk Matula

(Czech Rep., 1997); (10) Dr. Antanas Maziliauskas (Lithuania, 1997); (11) Dipl.-Ing. Frederick M. Cate (Austria, 1998); (12) VPH Dr. Ricardo Segura (Spain, 1999); (13) VPH Dr. Henri Tardieu (France, 1999); (14) Mr. Jaakko Sierla (Finland, 2001); (15) Dr. Davor Romić (Croatia, 2002); (16) Dr. Zvonimir Vukelić (Macedonia, 2002); (17) Mr. Mati Tonismae (Estonia, 2002); (18) Prof. Dr. A. Poulouvasilis (Greece, 2003); (19) Dr. John Martin (Ireland, 2003); (20) Mr. Peter Pantelic (Serbia, 2003); (21) Dr. Pol Hakstege (The Netherlands, 2007); (22) Dr. Irina G. Pankova (Russia, 2007); (23) Mr. Claude Allain Vuillier (Switzerland, 2007); and (24) Secretary General, ICID.

Observers: (i) Mr. Mohammed Binbilidia (IME, France); and (ii) Prof. Dr. Joachim Quast (Germany).

Ex-Officio Members: (i) Chairman, ERWG Work Team on European Water Framework Directive; (ii) VP Prof. Peter Kovalenko, Ukraine, Chairman ERWG Work Team on Sustainable Irrigation Management; (iii) VPH G.G. Guluyk, Russia, Chairman ERWG WT on Drainage; and (iv) Chairman (to be appointed) ERWG Work Team on Water Related Risk Analysis

Activities: The 15th meeting of the European Regional Working Group (ERWG) was held on 07 December 2009 at New Delhi. Earlier, an interim meeting of ERWG was also held on 17 May 2009 preceding to 23rd European Regional Conference (2009) at Lviv, Ukraine. Germany, Estonia, Hungary, Spain, The Netherlands, Ukraine and Secretary General, ICID Central Office were represented at the interim meeting.

One of the new developments reported in the 23rd ERWG was the cooperation with regard to EWA (European Water Association) and the International Commissions for Protection of the Rivers like Rhine, Danube, and Odra. There were two projects with German participation: (i) Water Management Tasks in the Summer Polders of the Nemunas Lowlands, and (ii) Flood Modelling in the Upper Dnister Valley together with Ukraine and

Lithuania. The projects have been finalized and the outcome are to be published soon.

ERWG members continued the cooperation with Central and Eastern Europe Global Water Partnership (CEE-GWP) and World Wide Fund for Nature (WWF). It would be useful to develop liaison with CEE-GWP. ERWG members continued the dialogue on the topic: the WFD and its implementation through tools of the 'Common Agriculture Policy' in the year 2007-2013.

The ERWG supported the 2nd International Symposium on Water Management held during 31 March – 03 April 2009 at Berlin, organized under the umbrella of ICID together with DWA-German Water and Wastewater Association. The proceedings of the event is available from Prof. Joachim Quast (Germany) for those interested.

The 23rd European Regional Conference (ERC) of the ICID was successfully held during 18-21 May 2009 at Lviv, Ukraine. The theme of the ERC was "Progress in Managing Water for Food and Rural Development". Professionals from Bulgaria, Estonia, Germany, Hungary, Iran, The Netherlands, Poland, Romania, Russia, Spain, Ukraine, UK, Uzbekistan, and Secretary General, ICID participated in the conference. Approximately 50 young professionals also attended the conference.

The French National Committee (AFEID) will be organizing the 24th ERC on "Groundwater Resources: an Essential Resource to be Saved and Managed" on 14-16 March 2011 at Orleans in France, while the Netherlands National Committee of ICID (NETHCID) will be organizing the 25th ERC on "Integrated Water Management for Multiple Land Use in Flat Coastal Areas" during 16-20 May 2011 at Groningen, The Netherlands. ERWG Letter 19 (2009) was published in May 2009 and was widely circulated. Copies of the earlier issues can be viewed at <http://www.erwg.icidonline.org>.

Special Work Team on Aral Sea basin (ST-ARAL)

Year of Establishment: 1994

[Now Working Group on Irrigation and Drainage in States under Social-Economic Transformation (WG-IDSST)]

Year of Establishment: 2009

Webpage: <http://www.icwc-aral.uz>

Mandate: To agree concerning the organizational and

management structure of the working team; to develop and strengthen a network among the countries of transition; to organize monitoring and evaluation of common problems in the States that belong to transition economy; to create database and exchange of information about changing situation in Irrigation and Drainage in these States and to attract global and national attention to existing trends affecting global and national food security and wellbeing of rural population; to summarize the experiences in overcoming negative tendencies in organizing public-private partnerships, implementation of IWRM and



16th meeting of ST-ARAL

broad-basing of stakeholder; to monitor the ecological situation in the transition states, including problems of closed basin (Aral Sea, Caspian Sea), salinization and water logging; development of appropriate advance irrigation and drainage technology in transition states and its dissemination through capacity building; and to promote farmer's training to create awareness about irrigated and drainage agriculture.

Members: (1) VP Peter Kovalenko, Chairman (2009) (Ukraine, 2009); (2) VPH Victor A. Dukhovny, Deputy Chairman, 2009 (Uzbekistan, 1994); (3) Mr. John Osterberg (USA, 2009); (4) Prof. Dr. N. Hacho (Japan, 2009); (5) Engr. M.S. Adamu (Nigeria, 2009); (6) Acad. Boris Kizyaev (Russia, 2009); (7) Mr. Ron W. Coley (Canada, 2009); (8) Mr. M. Falciai (Italy, 2009); (9) Mr. Bernard Vincent (France, 2009); (10) Dr. Kai Wagerich (Netherlands, 2009); and (11) Secretary General, ICID.

Permanent Observers: (i) Prof. Daene C. McKinney (IWRA); (ii) Dr. Carlos Garces-Restrepo, IPTRID/FAO; and (iii) The World Bank Representative.

Activities: ST-ARAL held its last (16th) meeting on 8 December 2009 at New Delhi, India. The meeting was well attended by members & observers along with the representatives from Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, Ukraine and ICID Secretary General.

A meeting of the key dignitaries participating from Central Asia in 60th IEC with the World Bank support took place in the sidelines with President ICID and Secretary General to chalk out



President Chandra Madramootoo and Secretary General with participants from Central Asian countries

the manner in which ICID contributions could promote Central Asia's food security.

During the meeting, it was decided to close the Work Team and restructure the ST-ARAL with the new name as "Working Group on Irrigation and Drainage in States under Social-Economic Transformation". ST Aral proposed its recommendations as 1st Draft "Action Plan". VPH Prof. Dukhovny proposed VP Prof. Kovalenko (Ukraine) to lead the new WG, while keeping himself available for the position of Vice Chairman. An outstanding meeting of 5 Heads of States – Presidents of Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan took place on 28 April 2009 in Almaty.

A special session on "Aral Sea Basin Initiative" was organized during 5th ARC at New Delhi in December 2009.

Special Work Team on Lake Chad Basin (ST-LCB)

Year of Establishment: 2005

Webpage: <http://www.st-lcb.icidonline.org/>

Mandate: 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 co-operate with other international organizations in related activities.

Members: (1) VPH Engr. I.K. Musa, Chairman (2004) (Nigeria, 2007); (2) Dr. M.S. Adamu (Nigeria, 2005); (3) Dr. Sizwe Mkhize (South Africa, 2005); (4) Dr. H. Fahmy (Egypt, 2005); (5) Prof. Tom Franks (UK, 2005); (6) VPH Prof. V.A. Dukhovny (Uzbekistan, 2005); and (7) Secretary General, ICID.

Permanent Observers: (1) ARID-RAID Representative (2) LCBC Representative; (3) FAO Representative (4) IPTRID

Representative; and (5) World Bank Representative.

Activities: The Central Office has followed-up with the active ICID National Committees belonging to the Lake Chad Basins as well as other interested National Committees to nominate their professionals for the membership. In response, the Niger National Committee (ANID) nominated Mr. Illiassou Mossi Maiga and the Japanese National Committee (JNC-ICID) nominated Prof. Dr. Tsuguro Watanabe.

In absence of the Chair and others members, a meeting of the ST could not be held at New Delhi.

Earlier, a draft report titled "Saving Lake Chad" as prepared by the team was widely circulated among all concerned. The report will be published once it is finalized. The tenure of the ST-LCB has been extended until 2011 so as to complete its mandate.



VPH Engr. I.K. Musa

Committee on Congresses/Conferences (C-CONGR)

Year of Establishment: 1990

Webpage: <http://www.c-congr.icidonline.org>

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,



Mr. Mohammad Kazem Siah

Special Sessions and Symposia; to establish procedures for scheduling of most appropriate workshops, seminars, etc. to be held at the time of Congress; 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) Mr. Mohammad Kazem Siah, Convener (2009) (Iran, 2009); (2) VP Dr. Illahi B. Shaikh (Pakistan); (3) Indian Representative, INCID (India); (4) Korean Representative, KCID (5) Indonesian Representative, INACID (Indonesia); (6) Netherlands Representative, NETHCID (The Netherlands); (7) Mali Representative, AMID (Mali); (8) Australian Representative, IAL (Australia); and (9) Dr. Vijay K. Labhsetwar, ICID, Central Office.

Activities: The 20th meeting of the Committee on Congresses / Conferences (C-CONGR) was held on 07 December 2009, New Delhi. Mr. Hussain Ahmad (Pakistan) briefly apprised the Committee of the successful organization of the Lahore Congress. The guidelines of the Congress were quite comprehensive and so far have been utilized by the concerned National Committees successfully.

Mr. Mehrzad Ehsani, representative of IRNCID submitted status of preparation and detailed planning of the 21st ICID Congress and 62nd IEC in 2011 at Tehran, Iran. The Congress website is <<http://www.icid2011.org>>. Members may provide a link to the Congress website through their country websites.

Indian representative Mr. Yogesh Paithankar (INCID) briefly explained the preparations made for organizing the 60th IEC and 5th ARC successfully during 5-11 December 2009 at New Delhi, India.



VP Hafied Gany, VPH S. Nairizi and President Chandra Madramootoo

Vice President Dr. A. Hafied A. Gany representing INACID reported the progress on preparation and planning for the 61st IEC meeting and 6th ARC in Indonesia in 2010. More information is available at the website <<http://www.icid2010.org>>.

Ms. Olga Zhovtong representing Ukraine National Committee of ICID (UACID) informed that UACID successfully organized the 23rd European Regional Conference with special focus on water, food and rural development; Integrated Water Resource Management; and Rural Development. Young Professionals Forum was also successfully organized. Farmers, business representatives and local stakeholders participated in the conference for comprehensive dialogue.

The French National Committee of ICID (AFEID) proposed to host the 24th European Regional Conference (ERC) in December 2010 at Orléans, France. The theme of the conference was proposed as 'Groundwater resource: an essential resource to be saved and managed'. The 25th European Regional Conference will be held during 16-20 May 2011 at Groningen, The Netherlands and will focus on 'Integrated Water Management for Multiple Land Use in Flat Coastal Areas'.

Dr. H.C. Toussaint, representative from The Netherlands National Committee (NETHCID) submitted status of preparation and detailed planning of the 25th ERC and distributed flyers.

President Hon. Peter Lee proposed a 'Guidelines for Organizing Conference Tours' during ICID events and presented its outline.

Working Group on Young Irrigation Professionals Forum (WG-YPF)

Year of Establishment: 1993

Webpage: <http://www.wg-ypf.icidonline.org/>

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; and to educate young professionals about ICID's role, objectives, activities, structure, constitution and Bylaws.

Members: (1) Mr. Ali Reza Salamat, Chairman, (2009) (Iran, 2000); (2) Ms. Nepveu de Villemarceau au Audrey, Secretary (2002) (France, 2002); (3) Dr. Maurits Ertzen (The Netherlands, 2002); (4) Dr. Nariman Shamsutdinov (Russia, 2003); (5) Ms. Jianxin Mu



Dr. Sanjay Belsare

(China, 2003); (6) Mr. Bennie Grové (South Africa, 2003); (7) Engr. Qazi Tallat Mahmood Siddiqui (Pakistan, 2006); (8) Mr. Velayudan, Sv., Kalaiselvam (Malaysia, 2006); (9) Dr. Kwang-Ya Lee (Korea, 2007); (10) Mr. Piyush Ranjan (India, 2009); and (11) Dr. Takanori Nagano (Japan, 2009).

Activities: The 15th meeting of WG-YPF was held on 7 December 2009 at New Delhi. Dr. Sanjay Belsare, Vice Chairman conducted the meeting. The issue of election of new Chair and Vice Chair was deferred in view of scarce attendance of members. Mr. Ali Reza Salamat may continue as Interim Chairman of the WG till the next meeting in October 2010 or a consensus choice is made via virtual discussion, whichever is earlier. Some attendees proposed to raise the age from 40 to 45 years for being considered as young professionals.

In order to activate young professionals in ICID activities following measures were suggested – (a) making obligatory to NCs to nominate an additional young member in each working

group of ICID, (b) NCs shall ensure the participation of young professional member in their delegation to ICID events, (c) Full waiver of registration fee to WG-YPF member as well as other young professionals participating in the ICID events, and (d) providing sponsorship and inexpensive accommodation to WG-YPF members whenever possible.

It was also proposed to provide some time slot for YPF presentations during regular annual meetings of WG-YPF at the time of IECs and a full day for YPF activities at the time of triennial Congresses. It was suggested that the CO may consider one page summary of those papers of the young professionals which are approved by the Scientific Committee for Newsletter. The YPF Newsletter was disseminated among the members of the WG as well as observers. The electronic version of the Newsletter was posted on the WG-YPF website for its easy access. It was also decided to share the YPF Newsletter through e-mail besides making it available on the WG webpage.



PCTA Workbodies

The Permanent Committee on Technical Activities (PCTA) has 18 Workbodies categorized under four strategy themes, namely - Knowledge, Basin, Systems, and On-Farm. The following is a brief description about the mandate, membership, and key activities carried out by each of these working groups/ committees during the period April 2009 to March 2010.

STRATEGY THEME: KNOWLEDGE

ICID Journal Editorial Board (EB-JOUR)

Year of Establishment: 1994

Webpage: http://www.icid.org/wiley_journal.html

Mandate:

- To ensure with the (Joint) Editor(s) that the Journal is published in accordance with editorial policy;
- To select and recommend to IEC, through PCTA, the appointment of (Joint) Editor(s), Associate Editors and Members;
- 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 workbodies.

Members (Editorial Team): (1) PH. Prof. dr. Bart Schultz (The Netherlands, 2002), Chairman; (2) VPH Prof. Hector Malano (Australia, 2008); (3) Dr. Nick C. van de Giesen (The Netherlands, 2008) as Joint Editors; and (4) Ir. Prof. J.M. van Hofwegen (The Netherlands, 2008) as Editor Emeritus.

Associate Editors: (5) Dr. Bryan P. Thoreson (USA, 2001); (6) Mrs. Isabelle M. Proulx (Canada, 2003); (7) Prof. (Mrs.) Ir. Indreswari Guritno (Indonesia, 2004); (8) Dr. Benjamin de Leon Mojarro (Mexico, 2005); (9) VPH Dr. Henri Tardieu (France, 2007); (10) Dr. Marcel Kuper (France, 2009); (11) Dr. Bruce Lankford (UK, 2009); and (12) Prof. M.F. Vijoën (South Africa, 2009).

Members: (13) VPH Larry D. Stephens (USA, 2001); (14) Prof. Daniele de Wrachien (Italy, 2001); (15) VPH Dr. S. Nairizi (Iran,

2001); (16) Dr. C. Perry (UK, 2001); (17) Dr. Muhammad Latif (Pakistan, 2002); (18) VPH Prof. Kwun, Soon-Kuk, (Korea, 2003); (19) Prof. Dr. Joachim Quast (Germany, 2004); (20) Prof. Y.C. Tan (Chinese Taipei, 2006); (21) Prof. Dr. Jinzhong Yang (China, 2007); (22) Mr. C.M. Pandit (India, 2009); (23) Dr. Yohei Sato (Japan, 2009); (24) Prof. Ir. Dr. Mohd. Amin bin Mohd. Soom (Malaysia, 2009); and (25) Dr. Vijay K. Labhsetwar (ICID, CO).



PH Prof. Bart Schultz

Activities: The 16th meeting of the ICID Journal Editorial Board (EB-JOUR) was held on 08 December 2009 in New Delhi, India. Dr. Yohei Sato (Japan) and Mr. C.M. Pandit (India) became the new members of the EB-Journal. Dr. Marcel Kuper (France) and Dr. Bruce Lankford (UK) became the new Associate Editors of the EB-JOUR. Dr. Hector Malano (Australia) and Prof. Nick van de Giesen (The Netherlands) are the Joint Editors. Prof. Bart Schultz volunteered to continue as Chair until the IEC meeting in 2011.

The Chairman's reports for the period January-September 2009 was presented and discussed at the New Delhi meeting. To accommodate more number of papers per issue in a new format, it was recommended that the number of pages per issue be increased from 128 to 152 in 2011 with no financial implications.

The Special issue with the selected papers from the Lahore Congress (2008) has been published as Issue 58.5. In addition, three sponsored special issues published were –

- “Water and Food for Ending Poverty and Hunger” published (Issue 58.1) on the occasion of 5th World Water Forum.
- “The Water Professional of Tomorrow” published (Issue 58.2) based on reviewed papers of the NETHCID symposium.
- “Irrigation Management in North Africa” (Issue 58.3) based on papers presented in the framework of the SIRMA (Irrigation Systems for Maghreb) project.

The ‘Best Paper Award 2009’ was jointly awarded to Ms. Jianxin Mu (China), Prof. Dr. Shahbaz Khan (Australia) and Dr. Gao Zhanyi (China) with a citation plaque in recognition of their outstanding paper titled “Integrated Water Assessment Model for Water Budgeting Under Future Development Scenarios in Qiantang River Basin of China” published in Issue 57.4.



16th meeting of EB-JOUR

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

Year of Establishment: 1992

Mandate:

- To describe the economic, social and environmental aspects of water resources projects which help 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;
- 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, and
- 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) VPH Larry D. Stephens, Chairman (1992) (USA, 1992); (2) PH Peter S. Lee (UK, 1993); (3) Prof. Hsieh, Yung-Hsu (Chinese Taipei, 1998); (4) Ms. Anne Currey (Australia, 1998); (5) VPH Dr. Dia El-Din Ahmed El-Quosy (Egypt, 1998); (6) Prof. Atef Hamdy (Italy, 2004); (7) VPH Dr. Javad Farhoudi (Iran, 2006); (8) PH Prof. Bart Schultz (Netherlands, 2009); (9) Mr. A.K. Ganju (India, 2009); and (10) Secretary General, ICID.

Ex-Officio Member: (1) Mr. Satit Maneepai (Thailand)

Activities: C-PR&P held its 18th meeting on 7 December 2009

at New Delhi, India. Central Office has published the revised and updated edition of ICID's Multilingual Technical Dictionary as CD-ROM. In addition to English and French, the Dictionary also incorporates three additional languages, viz. Chinese, Japanese and Russian, with the possibility of adding more languages as and when the translations in other languages are available. The other feature of this version is that it is web enabled, whereby any additions, modifications etc. can be done through the web only and downloaded by the users automatically when connected to web.

To commemorate the 60th anniversary of ICID, the Central Office has also brought out a CD-ROM entitled 'ICID@60' providing historical background of Commission's activities during the last 60 years.

The Committee selected the new name of the ICID Newsletter as "ICID News". It was further agreed that the Monthly News Update be published online only. This will also enable inclusion of more photos and outlay in color. Depending upon necessity, the number of pages can be increased.

PH Bart Schultz asked that the Annual Report (AR) may also include statistics on drainage besides irrigated area. He further suggested that the quality of the design and printing of the AR should be good, noting that this document is an important publication as it provides information on ICID activities comprehensively to other water related organizations.

PH Bart Schultz suggested that the ICID presentations and Topic 2.3 Report made during World Water Forum-5 be prepared for distribution with a printed summary and a CD including the full presentations. He further suggested that to look for outside publisher for selected ICID publications, such as the Inter-Basin Water Transfer document that is under finalisation.

It was suggested that ICID may cooperate with Central Board of Irrigation and Power (CBIP) to market ICID publications in India who are promoting and selling their publications effectively. Mr. Sharma, Secretary noted that the ICID website continues to be updated. PH Peter Lee reported that he has received very positive comments about the quality of the website.



(From left) PH Bart Schultz, Mr. K.N. Sharma, PH Peter Lee, VPH Larry Stephens, Dr. S.A. Kulkarni, and Mr. A.K. Ganju

Working Group on Technology and Research Uptake and Exchange (WG-TRUE)

Year of Establishment: 2007

Webpage: <http://www.wg-true.icidonline.org/>

Mandate: To support research and development of technology and innovation processes for improved irrigation and drainage.



Prof. L. Vincent

Members: (1) Prof. L. Vincent, Chairperson, 2007 (The Netherlands, 1995); (2) Dr. John A. Replogle, Secretary, 2007 (USA, 1999); (3) VP Prof. L. Ubertini (Italy, 1989); (4) Mr. A. Delacourt (France, 1995); (5) Mr. J. Lelkes (Hungary, 1998); (6) Mr. Sietan Chieng (Canada, 2001); (7) Dr. (Mrs.) Irene Bondarik (Russia, 2001); (8) Prof. Jiesheng Huang (China, 2003); (9) Prof. J.G. Annandale (South Africa, 2003); (10) Prof. Yuanhua

Li (China, 2003); (11) Mr. Geoff Pearce (UK, 2003); (12) Mr. Ezzatollah Farhadi (Iran, 2005); (13) Dr. Mohammud Che Husain (Malaysia, 2005); (14) Mr. Stephens Mills (Australia, 2005); (15) Mr. Ian William Makin (UK, 2006); (16) Dr. Enrique Playan (Spain, 2006); (17) Dr. Kazumi Yamaoka (Japan, 2009); (18) Mr. Indra Raj (India, 2009); (19) Mexican representative (MXCID); (20) Nigerian representative (NINCID); (21) Indonesian representative (INACID); and (22) Secretary General, ICID.

Observers / Permanent Observers: (1) IPTRID Representative; (2) FAO Representative; (3) World Bank Representative; (4) IWMI Representative; (5) PH Peter Lee, CG-IPTRID, UK; (6) Mr. Campoare Moussa Laurent, (ARID-Burkina Faso); (7) VPH Dr. Hussein El-Atfy (Egypt); (8) Dr. (Mrs.) Shaden Abdel-Gawad; and (9) Dr. H. Fahmy (Egypt).



2nd meeting of WG-TRUE

Activities: The 2nd meeting of the WG-TRUE was held on 6 December 2009 at New Delhi, India. The WG decided to organize a workshop during 61st IEC in October 2010 at Yogyakarta. Dr. Ortiz provided details on the COREGEST and CORENET information systems mentioned in the questionnaire response from Spain.

Member John Replogle has circulated information on irrigation guides and papers relevant to the field of WG-TRUE from meetings he has attended (Irrigation Association, Irrigated Agriculture Common Interest Group, IAHR Congress, USCID Conference).

International Workshop on "Capacity Development for Farm Management Strategies to Improve Crop-Water Productivity using AquaCrop" held on 25-29 October 2009 at the Agricultural Research Center (ARC), Ministry of Agriculture and Land Reclamation in Cairo, Egypt. The workshop was jointly organised by Food and Agriculture Organization of the United Nations (FAO), UN-Water Decade Programme on Capacity Development (UNW-DPC); and Soil, Water and Environment Research Institute (SWERI).

Working Group on Coordination of Dictionaries (WG-CD)

Year of Establishment: 1998

Webpage: <http://www.wg-cd.icidonline.org/>

Mandate:

- To encourage 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. Bruno Molle, Chairman, (France); (2) Dr. E. Kruse (USA); (3) Dr. P. Buri (Italy); (4) VPH Prof. Cai Lingen (China); and (5) Mr. K.N. Sharma, Secretary (ICID, CO).

Observers / Permanent Observers: (i) FAO representative; (ii) WMO representative; (iii) IWMI representative; (iv) VPH Prof. Hector Malano (Australia), Chairman, PCTA; and (v) VPH Larry D. Stephens (USA), Chairman, C-PR&P.

Activities: The WG-CD held its 12th and last meeting on 07 December 2009 at New Delhi. The WG noted that all the deletions, additions and shifting of terms as suggested by the experts and the editorial teams were incorporated in the final CD-ROM. The French version of a new chapter on climate change was also added to the Dictionary.



Mr. Bruno Molle

The new version of the MTD contained the facility of uploading the other translated versions, corrections, additions or modifications to the terms and definitions through the website. Thus, anyone having a copy of the Dictionary could always keep updated on the latest changes in the Dictionary as soon as connected with the internet.

Dr. Bernard Vincent (France) suggested that a French-English section could also be added and that the possibility of accessing other technical dictionaries should be explored whereby a term not available in the MTD can be seen in the other available dictionaries available free of cost through internet.

Vice President Gany announced that the Bahasa translation of the Dictionary was completed. Mr. Mehdi Ghomeshi (Iran) informed that the translation of the Dictionary into Persian was in

progress. Since the mandate of the WG has been accomplished, the Group decided to wind up its activities.

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

Year of Establishment: 1981

Webpage: <http://www.wg-hist.icidonline.org/>

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, and
- To organize seminars at ICID Congresses in order to show to experts the importance of historical studies when planning new projects.

Members: (1) Dr. Kamran Emami, Chairman (Iran, 2009); (2) Dr. Hubert Toussaint, Secretary (The Netherlands, 2005); (3) Prof. N. Hatcho (Japan, 1996); (Chairman, 2002-2009); (4) VPH Dr. Ricardo S. Graino (Spain, 1992); (5) Mrs. F. Sinatti (Italy, 1994); (6) Mrs. Xuming Tan (China, 1998); (7) VP Dr. Illahi B. Shaikh (Pakistan, 2000); (8) VP Dr. Laszlo Hayde (Hungary, 2001); (9) Mr. Satit Maneepai (Thailand, 2002); (10) Mr. Jean Verdier

(France, 2003); (11) VP Dr. Hafied A. Gany (Indonesia, 2005); (12) Mr. Charles L. Abernethy (UK, 2005); (13) Dr. Ing. Klaus Roettcher (Germany, 2006); (14) Prof. Wen-Pin Shu (Chinese Taipei, 2006); (15) Dr. Jeong-Woo, Na (Korea, 2007); (16) Mr. Yogesh Paithankar (India, 2009); and (17) Secretary General, ICID.

Permanent Observers: (i) Dr. (Mrs.) B. Dolfing (The Netherlands); and (ii) Dr. Ir. M. Ertsen (IWHA).

Activities: WG-HIST held its 12th meeting on 6 December 2009 at New Delhi in which 43 persons were present including WG members and observers. Dr. Kamran Emami (Iran) was nominated as the new Chairman of WG-HIST. The WG members profusely thanked Prof. Dr. N. Hatcho (Japan) for Chairing the WG since 2002 and for his active contribution, including organizing of history seminars. Prof. Hatcho was instrumental in bagging the first Best Performing Workbody Award (BPWA) for WG-HIST in 2005.

At the New Delhi meeting, Prof. Segura presented a print copy of a bilingual updated draft version on 'Reflections on the History of Irrigation and Drainage in Spain'.

The WG-HIST will organize a Seminar on 'History of Irrigation in Eastern Asia', focusing especially on the use of modern water technology during the 61st IEC meetings in Yogyakarta, Indonesia.

STRATEGY THEME: BASIN

Working Group on Global Climate Change and Agricultural Water Management (WG-CLIMATE)

Year of Establishment: 2005.

Webpage: <http://140.115.62.223/raywu/ICID/index.php>

Mandate:

- To review the progression of and predictions for Global Climate Change (GCC) and climate variability,
- To explore and analyze the medium-term implications of climate change and climate variability for irrigation, drainage, and flood control,
- To stimulate discussion and raise awareness of water-related GCC issues within the ICID family,
- To stimulate discussion at national scales among scientists, policy makers, and, through the media, the general public on GCC and water, and
- To join the international dialogue on GCC and water.

Members: (1) VPH Dr. Mark Svendsen, Chairman (USA, 2006); (2) Dr. Tsugihiko Watanabe, Vice Chairman (Japan, 2006); (3) Mr. Ray Shyan Wu, Secretary (Chinese Taipei, 2007);



Dr. Tsugihiko Watanabe and VPH Mark Svendsen

(4) VPH Dr. H. Tardieu (France, 2006); (5) VPH Dr. Karim Shiati (Iran, 2006); (6) VPH Dr. André Musy (Canada, 2007); (7) Dr. Kim Russell (Australia, 2007); (8) Ms Nurgül Üzücek (Turkey, 2007); (9) Dr. Krishna Kumar Kanikicharla (India, 2007); (10) Prof. Heping Hu (China, 2008); (11) Prof. Sue Walker (South Africa, 2009); and (12) Secretary General, ICID.

Observers/Permanent Observers: (1) Mr. Avinash C. Tyagi, WMO; (2) Dr. Claudia Ringler, IFPRI; (3) IWMI Representative; and (4) FAO Representative.

Activities: The group held its 4th meeting on 7 December 2009

at New Delhi. There was an overwhelming participation of the delegates as evidenced by the attendance of 10 members and 83 observers belonging to 22 countries (South Africa, France, China, Australia, Canada, Chinese Taipei, Egypt, Estonia, India, Iran, Indonesia, Japan, Kazakhstan, Korea, Nepal, The Netherlands, Pakistan, Slovenia, Thailand, Turkey, UK and USA).

The Group accepted the nomination of Prof. Sue Walker (South Africa) for membership. Mr. Ray Shyan Wu (Chinese Taipei) is the new Secretary of the WG. At the meeting, Dr. Shinsuke Ota (Japan) made a brief report on the discussion of climate change issues which took place at WWF5 in Istanbul. There were also

interesting presentations from Australia, California, China, Japan, India, and Spain related to climate change.

Chairman Dr. Svendsen briefed about the WG's contribution to some international meetings and initiatives like- UN-Water Task Force on Water and Climate, WMO World water Climate Conference, ICID_UK meeting on water and Climate Change, World Water Development Report 3, and the OECD Policy Guidance on Climate Change Adaptation. The group also agreed to deliberate on the topic 'Methane Flux from Irrigated Wetland Rice'.

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

Year of Establishment: 1999

Webpage: <http://www.wg-cafm.icidonline.org/>

Mandate

- To identify and disseminate various structural and nonstructural 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) VP Dr. Illahi B. Shaikh, Interim Chairman, 2007 (Pakistan, 2001); (2) Dr. K. Emami, Vice Chairman, 2009 (Iran, 1999); (3) Dr. Takao Masumoto, Secretary (Japan, 2009); (4) Mr. V.C. Ballard (Australia, 1992); (5) Dr. Lajos Szlavik (Hungary, 1996); (6) Prof. M.F. Viljoen (South Africa, 1997); (7) Mr. Jin Soo Kim (Korea, 2000); (8) Prof. Josip Petras (Croatia, 2002); (9) Mr. Ahmet Seren (Turkey, 2006); (10) Mr. Maurice Roos (USA, 2006); (11) Prof. dr. Franc Steinman (Slovenia, 2006); (12) Ir. Jos van Alphen (The Netherlands, 2007); (13) Dr. Jianming Ma (China, 2008); (14) Mr. G.S. Purba (India, 2009); and (15) Secretary General, ICID.

Permanent Observers: (i) FAO Representative; (ii) UNDRO Representative; (iii) WMO Representative; and (iv) World Bank Representative.

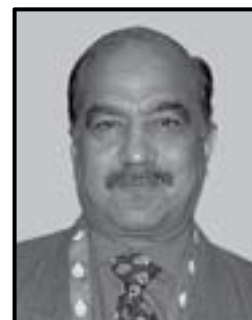
Activities: The 24th meeting of the Working Group on Comprehensive Approaches to Flood Management (WG-CAFM)

was held on 07 December 2009 at New Delhi. Dr. Takao Masumoto (Japan) and Mr. G.S. Purba (India) became the new members of WG-CAFM. Dr. K. Emami (Iran) and Dr. T. Masumoto (Japan) became the Vice-Chairman and Secretary of the WG-CAFM, respectively.

Mr. G.S. Purba (India) presented a summary of current flood management arrangements and operations in India, and Dr. K. Emami (Iran) presented a number of examples of flood management in Iran and other countries. Dr. Emami (Iran) further made a presentation on 'Value Engineering' suggesting that it is a valuable tool which may have wide applications in the irrigation and drainage field in general. Agreeing to the concept of 'Value Engineering' in principle, the idea of establishing a new WG on 'Value Engineering' in Irrigation and Drainage was supported.

New Structured Proposal for WG-CAFM workplan came up for discussion under tenure and mandate of WG, but it has not yet been developed into a coherent mandate or workplan.

Vice President Engr. Dr. Illahi B. Shaikh (Pakistan), Chairman, WG-CAFM retired from Government services in Pakistan in 2009 and therefore relinquished as chairman of the WG. WG members expressed their thanks to Dr. Shaikh for chairing the working group for a couple of years and his contributions to the activities of the WG since 2001. He continues to be the Interim Chairman of the WG.



VP Illahi B. Shaikh

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

Year of Establishment: 2001

Websites: <http://www.wg-sdta.icidonline.org>, and <http://www.webhard.co.kr>

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) Ir. Henk P. Ritzema Vice Chairman (2009) (Netherlands, 2002); (3) Dr. Ruey-Chy Kao, Secretary (2009) (Chinese Taipei, 2007); (4) VPH Prof. Cai Lingen (China, 2002); (5) Dr. Indreswari Guritno (Indonesia, 2002); (6) Mr. E.J. James (India, 2002); (7) Dipl. Ing. Bernd Probst (Germany, 2003); (8) Mr. Ueda Kazumi (Japan, 2003); (9) Mr. Tech Wang Chaw (Malaysia, 2007); (10) Dr. Jo Jin Hoon (Korea, 2009); and (11) Secretary General, ICID.

Observers: (i) Mr. Daesu Eo (Korea, Rep. of); (ii) Mr. Robiyanto Hendro Susanto (Indonesia); (iii) Mr. H.W. Wang (Chinese Taipei);

(iv) Mr. Dimant B. Vyas (India); and (v) FAO/IPTRID Representative.

Activities: The 8th meeting of the ICID Working Group on Sustainable Development of Tidal Areas (WG-SDTA) was held on 08 December 2009, New Delhi. Ir. Henk P. Ritzema (The Netherlands) became the new Vice-Chairman and Prof. Ruey-Chy Kao (Chinese Taipei) the Secretary of the WG.

Dr. Jo Jin Hoon (Korea), Dr. Hsiao-Wen Wang (Chinese Taipei) and Mr. Dhimant B. Vyas (India) became the new Observers in the WG-SDTA and consented to contribute to the publication of the Handbook on SDTA.

Due to unfinished task of the WG publication 'Handbook on SDTA', it was proposed to extend its tenure upto 2010 i.e. 61st IEC meeting to be held in Indonesia. The document would be published by ICID with the financial support from the National Committees of Korea, Japan and Chinese Taipei.

Dr. Park, Mr. Sim and Dr. Ritzema prepared a position paper

on "Development of tidal areas: some principles and issues toward sustainability" which was accepted for publication in the Special Issue of the 'International Journal on Irrigation and Drainage' published on the occasion of 5th World Water Forum held in Istanbul in March 2009. The WG proposes to sponsor a Special issue of ICID Journal on 'SDTA' in 2011. It is expected to prepare 10 papers based on contributions to the Handbook.

An Internal Workshop on "Monitoring Systems for Sustainable Development of Tidal Areas" was held on 8 December 2009 in New Delhi. Five papers were presented in the workshop. PH Bart Schultz (The Netherlands) made an encouraging speech in the workshop. Mr. Dhimant B. Vyas (India) also made a presentation introducing the Kalpasar Project under consideration by the Gujarat State in India. The proceedings of the workshop have been printed by the support of Korean National Committee (KCID) and Chinese Taipei Committee (CTCID).



Participants at 8th meeting of WG-SDTA

Working Group on Environment (WG-ENV)

(Erstwhile Working Group on Environmental Impacts of Irrigation, Drainage and Flood Control Projects; 1986 -2008)

Year of Establishment: 2008

Mandate: To provide guidance to policy makers, planners, designers, and managers in the irrigation and drainage sector on the environmental aspects of drainage and irrigation systems. The environmental aspects are physical, chemical, ecological, socio-economic and cultural, as well concerns to the effects on climate and human health. By looking at environmental aspects, the group will aim for the management of a sustainable environment, maximizing positive and minimizing adverse effects of irrigation and drainage systems.

Members: (1) Dr. Hu Heping, Chairperson, 2005 (China, 2000); (2) Prof. Yih-Chi Tan, Vice Chairman, 2005 (Chinese Taipei, 1995); (3) Dr. Ge van den Eertwegh, Secretary, 2006 (The Netherlands, 2005); (4) Mr. Barkat Hadid (Syria, 1991); (5) Dr. Smiljan Juvan (Slovenia, 1995); (6) Dr. Shaden Abdel



Dr. Ge van den Eertwegh, Dr. Hu Heping, and Prof. Yih-Chi Tan

Gawad (Egypt, 1996); (7) VPH Dr. Eiko Lubbe (Germany, 1997); (8) Prof. Almeida Fernandez (Portugal, 1997); (9) Mr. Mohammed Kazem Siahi (Iran, 2000); (10) Mr. Osmo Antero Purhonen (Finland, 2002); (11) Mr. Stefano Salbitani (Italy, 2003); (12) Dr. Choi, Joong-Dae (Korea, 2003); (13) Mr. Belguenani Hassane (Morocco, 2003); (14) Prof. Dr. Natha Hungspreug (Thailand,

2003); (15) VPH Dr. Jose A. Ortiz Fdz.-Urrutia (Spain, 2005); (16) Dr. Dennis Wichelns (USA, 2005); (17) VP Dr. Illahi B. Shaikh (Pakistan, 2006); (18) Prof. Dr. N. Hatcho (Japan, 2006); (19) Mr. Taner Kimence (Turkey, 2006); (20) Mr. C.K. Agrawal (India, 2009); (21) Dr. Sylvain-Roger Perret (France, 2009); and (22) Secretary General, ICID.

Observers/Permanent Observers: (1) FAO Representative; (2) ICOLD Representative; (3) World Bank Representative; (4) Dr. D. Zimmer, France; (5) Mr. Primož Banovec, Slovenia; (6) VPH Dr. H. El-Atfy, Egypt; and (7) VPH Prof. Hector Malano, Australia.

Activities: WG-ENV held its 1st meeting on 6 December 2009 at New Delhi in which 44 persons were present including WG members and observers. It was proposed that WG-ENV to look for cooperation with other WG's within ICID and organizations outside ICID, e.g. IUCN. President Dr. Chandra Madramootoo

stated that environmental flow issues as well as drainage return flows are of interest to ICID and should be discussed within the WG-ENV, both from a water quantity and quality perspective.

The WG deliberated the issue of new Chair, Vice Chair and Secretary during the meeting. For continuity of the activities, it was decided that the present Chair will continue as the New Chairman. The present Vice Chair and Secretary will continue as well. Presentations were made during the WG-ENV workshop held at New Delhi. The Working Group is organizing a Workshop on "Nutrient leaching from agricultural soils: loads to groundwater and surface water systems and water quality issues" during 61st IEC meeting at Yogyakarta on 12 December 2010.

Ms. Katharine Cross (IUCN) sought ICID's cooperation with IUCN and Environmental Flows Network in future as they would like the perspective of the agriculture sector in the network. More information on their network is available at www.eflow.net.org.

Working Group on Water Management in Water Stressed Regions (WG-DROUGHT)

Year of Establishment: 2008

Webpage: <http://www.wg-iadws.icidonline.org>

Mandate: The mandate covers three thematic areas as follows;

- Drought management strategies: This thematic topic mainly intends to capture field experiences of the implementation of drought risk management strategies as far as livestock and crop production and rural livelihood improvement are concerned.
- Coping with water scarcity: The topics to be addressed under this theme include: Critical evaluation of the validity of the crop water requirement computations based on climate data as a tool to be used in coping with water scarcity; Approaches and strategies for incorporating economical justification when deciding the amount of water to be allocated for agricultural production; Re-defining, as necessary, the conventional irrigation efficiency concept; and design, operation and maintenance of sand dams - under-ground water reservoirs.
- Rainfall management for sustainable agriculture: Since 60% of global food production comes from rainfed agriculture, innovation and implementation of smart rainfall management technologies will be essential. Furthermore, rainfall supports extensive forest areas that significantly contribute to human and livestock livelihood and sustainability of natural ecosystems.

Members: (1) VPH F. Dimick, Chairman (2009) (USA, 2008); (2) VPH Dr. S. Nairizi (Iran, 2008); (3) Mr. Mohammad Sadegh Jafari, Vice Chairman (Iran, 2009); (4) Dr. Abraham Mehari Haile, Secretary (2009) (The Netherlands, 2008); (5) Dr. Ragab Ragab (UK, 2008); (6) Mrs. Mu Jianxin (China, 2008); (7) VPH Hussein El Atfy (Egypt, 2008); (8) Mr. Anthony John Horton (Australia, 2008); (9) Mr. Graziano Ghinassi (Italy, 2008); (10) Dr. Tsugihiko Watanabe (Japan, 2008); (11) Prof. Chang-Chi Cheng (Chinese Taipei, 2008); (12) Mr. T.B.S. Rajput (India, 2009); and (13) Secretary General, ICID.



VPH F.E. Dimick and VPH Saeed Nairizi

Activities: The 2nd meeting of the WG-DROUGHT was held on 06 December 2009 at New Delhi. Vice President Hon. Franklin E. Dimick (USA), Mr. Mohd. Sadegh Jafari (Iran) and Dr. Abraham Mehari Haile (The Netherlands) became the new Chairman, Vice-Chairman and Secretary of the WG, respectively. Dr. T.B.S. Rajput (India) became the new member of the WG.

The WG has circulated a draft document of the publication - 'Irrigation under Drought and Water Scarcity' to the members for updating. Vice President Hon. Dr. S. Nairizi (Iran), Interim Chairman stated that the drought management strategies deal with the planning aspects; while coping with water Scarcity deals with actions or performance. Some issues related with drought management strategies suggested were:

- Short term and long term strategies need to be developed,
- Effects on society need to be considered in addition to the engineering aspects of drought management strategies,
- Water marketing must also be included in developing drought management strategies,
- Fish and wildlife and environmental concerns must also be included in developing drought management Strategies,
- Compilation of case studies would benefit the development of drought management strategies,
- Any long term strategy must include predictions of climate change effects, and

- Environmental consequences of droughts must be considered when developing drought management strategies.

Members opined that some case studies would be helpful in compiling ideas on how to conserve water. The compilation and

studying of these case studies may result in developing new concepts on irrigation practices. Mr. Jafari briefed on some ideas on how to approach the 'Rainfall Management for Sustainable Agriculture' and 'Rain water harvesting'.

STRATEGY THEME: SYSTEMS

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

Year of Establishment: 1994

Webpage: <http://www.wg-wats.icidonline.org/>

Mandate: To recognize proven water saving success, and to identify and promote successful water conservation practices.



VPH Hussein El-Atfy

Members: (1) VPH Dr. Hussein El-Atfy, Chairman (Egypt, 2000); (2) VPH Dr. J.M.M. Mendiluce (Spain, 1996); (3) Dr. Hsu, Shiang-Kueen (Chinese Taipei, 1997); (4) Mr. Neil Louis Lecler (South Africa, 2003); (5) Prof. Atef Hamdy (Italy, 2004); (6) Mr. Kim Russell (Australia, 2005); (7) Mr. Mehrzad Ehsani (Iran, 2006); (8) VPH Dr. Mark Svendsen (USA, 2007); (9) Dr. Yuanhua Li (China, 2007); (10) Mr. R.K. Gupta (India, 2009); (11) Dr. Muhammad Arshad (Pakistan, 2009); and (12) Secretary General, ICID.

Observers/Permanent Observers: VPH Dr. Alain Vidal (France), CGIAR

Activities: The 16th meeting of the WG was held on 08 December 2009, New Delhi, India. Mr. R.K. Gupta (India) became the new member for WG-WATS.

The WG has recommended some changes in WatSave awards. The group has suggested to limit one nomination for each category of award by any National Committee, and to add a fourth category award for farmers.



VPH Mark Svendsen and PH Peter Lee

Water saving contributions submitted by (i) Prof. Dr. Rai Niaz Ahmad (Pakistan), (ii) Messrs Shahaji Manikrao Somawanshi, Bharat Kawale and Sanjay Madhukar Belsare (India), and (iii) Dr. Malcolm Gillies (Australia), were chosen as winners ICID Watsave Award in categories of Innovative Technology, Innovative Water Management, and Young Professionals, respectively. Mr. Arvind Nalkande, a farmer from India received a 'Special Recognition' for his initiative on 'Rainwater Conservation through Cracks in Deep Black Soils'.

The WatSave Awards 2009 were sponsored by Indian National Committee on Irrigation and Drainage (INCID).

The WG document on "Water Saving in Agriculture" has been translated into Persian language. Mr. Ehsani presented several ideas for inclusion in the workplan of the WG in particular, preparation of one or more books related to "Water Productivity". The WG agreed to proceed and prepare such a document. Mr. Ehsani would prepare a concept paper on a broader water productivity theme.

Working Group on Drainage (WG-DRG)

Year of Establishment: 1983

Webpage: <http://www.wg-drg.icidonline.org/>

Mandate:

- To promote drainage as part of integrated water resources management; and
- To promote sustainable approaches for drainage and related projects through a balanced integration of (1) environmental, (2) economic, and (3) social and cultural aspects.

Members: (1) VP Dr. W.F. Vlotman, Chairman, 2001 (Australia, 2000); (2) Dr. James Ayars, Vice Chairman, 2007 (USA, 2005); (3) Mr. B. Vincent, Secretary (France, 2007); (4) VPH Prof. Dr. B. Maticic (Slovenia, 1987); (5) VPH Dr. M.H. Amer (Egypt, 1988);

(6) Mr. I. Dakar (Syria, 1991); (7) Dr. M.S. Adamu (Nigeria, 1992); (8) PH 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) Dr. M. Nawaz Bhutta (Pakistan, 2002); (15) Mr. Rauno Peltomaa (Finland, 2002); (16) Dr. (Ms.) Waltina Scheumann (Germany, 2003); (17) Mr. AT van Collier (South Africa, 2006); (18) Ms. Nurgül Üzücek (Turkey, 2006); (19) VP Dr. Shinsuke Ota (Japan, 2006); (20) Dr. H. Fahmy (Egypt, 2006); (21) Dr. Yurii Yanko (Russia, 2006); (22) Dr. Gurbachan Singh (India, 2008); and (23) Secretary General, ICID.

Observers / Permanent Observers: (i) FAO Representative; (ii) World Bank Representative; (iii) President Dr. Chandra A. Madramootoo (Canada); (iv) IPTRID Representative; (v) PH. Aly



VP Willem Vlotman

M. Shady (Canada); (vi) PH Prof. Bart Schultz (Netherlands); (vii) VPH Prof. H. Malano (Australia); and (viii) VPH Dr. Safwat Abdel-Dayem (Egypt).

Activities: The WG held its 27th meeting on 8 December 2009 which was attended by 8 members and 11 observers belonging to 12 countries (Australia, France, Slovenia, Malaysia, Iran, Finland, Japan, Russia, The Netherlands, Estonia,

India, and Canada). The WG has proposed to reorganize its activities under 6 subtopics, viz., disposal of salts and silts, impact of climate change on drainage, societal perception of drainage, role of drainage in food security, changes in land use, production and landscapes due to drainage, and financial

and socio-economic aspects of land drainage projects. The group also proposed to compile data on 'drained area in the world' by nominating regional correspondents who will retrieve information.

At the meeting, the Russian National Committee (RUCID) proposed to organize 11th International Drainage Workshop in St. Petersburg in September 2012 with the focus on 'Climate and Drainage'. A Special Session on Drainage was organized by Indian National Committee (INCID) on 8 December 2009. The session was chaired by Dr. W.F.Vlotman, Chairman and coordinated by Dr. Gurbachan Singh (India). Presentations from Australia, Canada, Iran besides India were made at the special session. A separate session on 'Integrated Approach in Agricultural Drainage' was also held during the 5th Asian Regional Conference.

Working Group on Modernization of Irrigation Services (WG-MIS)

Year of Establishment: 2007

Webpage: <http://www.wg-mis.icidonline.org/>

Mandate: To provide a continuing focus in ICID for sustainable improvement of irrigation service delivery through progressive modernization of infrastructure, management and institution.

Members: (1) Dr. Maurits Ertzen, Chairman, 2007 (The Netherlands, 2007); (2) Dr. François Brelle, Vice Chairman (France, 2007); (3) VP Dr. Willem F. Vlotman, Secretary (Australia, 2008); (4) Mr. Lee, Tsong-Hwei (Chinese Taipei, 2007); (5) Mr. Thomas E. Mitchel (USA, 2007); (6) Dr. Jiesheng Huang (China, 2007); (7) Dr. M.K. Siah (Iran, 2007); (8) Mr. Ian William Makin (UK, 2008); (9) Mr. Sezar Ercan (Turkey, 2008); (10) Dr. Ashwani Kumar (India, 2008); (11) Ms. Marina Pintar (Slovenia, 2008); (12) Prof. Filali B. Abdelwahab (Morocco, 2008); (13) Dr. Masayoshi Satoh (Japan, 2008); (14) Dr. Lee, Yong-Jig (Korea, 2008); (15) Dr. José M. García-Asensio (Spain, 2008); (16) Mr. Andre Roux (South Africa, 2008); (17) Engr. Syed Mansoob Ali Zaidi (Pakistan, 2009); and (18) Secretary General, ICID.

Permanent Observers: (i) FAO Representative; (ii) IPTRID Representative; (iii) PH Peter S. Lee (UK); and (iv) Mr. H. Plusquellec (USA/France).

Activities: The WG held its 3rd meeting at New Delhi on 7 December 2009 and was attended by 11 members and 27 observers belonging to 14 countries (The Netherlands, France, Australia, Chinese Taipei, Iran, Pakistan, India, Slovenia, Japan, Korea, Spain, South Africa, Mali, Malaysia and one representative from FAO). The Group accepted the nomination of Engr. Syed Mansoob Ali Zaidi (Pakistan) for membership.

It was informed that the European Environment Agency (EEA)



Dr. Maurits Ertzen and VP Willem Vlotman

had an activity to find out how water was used for irrigation in various European countries. However, it was told that there were very few places where irrigation water was measured. Only Germany has a large numbers of flow measurement sites. South Africa was looking to deploy remote sensing technique to compile irrigation water use by each irrigator in order to investigate the level of water supply efficiency in the country. The group proposed to carry out an overview of the contribution made to flow measurement by the previous ICID WGs. Cost and justification of measurement and how to charge the farmers seems to be an issue and needs further studies. The Chairman made presentation on MASSCOTE using the Peru case. It helps in formulating collection of information about an irrigation scheme and further processing and follow up. More case studies on the use of MASSCOTE will be presented at the next meeting in Indonesia.

Some members attended the Special Session on "Future of Irrigation in Asia" organized by IWMI jointly with FAO and ICID on 9 December 2009 at New Delhi.

STRATEGY THEME: ON-FARM

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

Year of Establishment: 1995

Webpage: <http://www.wg-pqw.icidonline.org>

Mandate: To promote a safe and good management of poor quality water for irrigation, to minimize the negative impact on human health and the environment, to promote the multiple use of poor quality water, and to give consideration to the Institutional and legislation aspects with regard to the use of poor quality waters.

Members: (1) Dr. Ragab Ragab, Chairman (UK, 1997); (2) Dr. Frans Huibers, Secretary (Netherlands, 1999); (3) VPH Dr. Karim Shiati (Iran, 1997); (4) Dr. H. M. du Plessis (South Africa, 1998); (5) Dr. Jan Salek (Czech Rep., 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) VPH Dr. Gao Zhanyi (China, 1998); (10) VP Dr. Samia El- Guindy (Egypt, 1999); (11) Dr. Ramzan Choudhry (Pakistan, 2000); (12) Mr. C.G. Croke (Australia, 2001); (13) Mr. Martin Roche (USA,

2002); (14) Ms. Esther O. Ogunniyi (Nigeria, 2002); (15) Mr. Ghannami Mohamed (Morocco, 2003); (16) Mr. Bernard Vincent (France, 2003); (17) Dr. Jorge Tarchitsky (Israel, 2004); (18) Dr. Makoto Yokozawa (Japan, 2009); and (19) Secretary General, ICID.

Permanent Observer: (i) FAO Representative; and (ii) ICBA Representative (UAE).

Activities: The working group held its 14th meeting at New Delhi on 8 December 2009. Dr. Ragab Ragab, Chairman conducted the meeting. The Group accepted the nomination of Mr. M. Yokozawa (Japan) for the membership. The WG made effective liaison with other related ICID WGs, viz., WG-DROUGHT and WG-CLIMATE by way of participation and presentation. The Group proposed to organize a workshop on "Water Quality and Irrigation" in October 2011 at Tehran, Iran. The tenure of the Group was extended until 2013.



Dr. Ragab Ragab

Working Group on 'On-Farm' Irrigation Systems (WG-ON-FARM)

Year of Establishment: 1998

Webpage: <http://www.wg-on-farm.icidonline.org/>

Mandate:

- To promote on-farm irrigation as part of integrated water resources management, and
- To promote sustainable efficient approaches for on-farm irrigation.

Members: (1) VPH Felix B. Reinders, Chairman, 2004 (South Africa, 1998); (2) VP Prof. Peter Kovalenko, Vice Chairman, 2005 (Ukraine, 2001); (3) Dr. R.K. Randev, Secretary (2009) (India 2005); (4) VPH Prof. F. Ligetvari (Hungary, 1998); (5) Dr. H. Sourell (Germany, 1999); (6) Dr. Kim Sun-Joo (Korea, 1999); (7) Mr. Yeh Shu-Shr (Chinese Taipei, 1999); (8) Mr. P. Ruelle (France, 1999); (9) Mr. J. Dunn (UK, 2002); (10) Mr. Yan Guanyu (China, 2002); (11) VPH Dr. J.A. Ortiz (Spain, 2003); (12) Mr. Graziano Ghinassi (Italy, 2004); (13) Mr. Hassan Shantia (Iran, 2006); (14) Mr. Mohan Reddy Junna (USA, 2007); (15) Dr. Abraham Mehari Haile (The Netherlands, 2008); (16) Dr. Makoto Yokozawa (Japan, 2009); (17) Prof. Dr. Rai Niaz Ahmed (Pakistan, 2009); (18) Mrs. Mira Edelbeher (Slovenia, 2009); and (20) Secretary General, ICID.

Permanent Observers: (i) Mr. Bruno Molle (ISO); and (ii) FAO Representative.

Activities: The working group held its 12th meeting on 8 December 2009 at New Delhi in which 12 members and 18 observers were present. The Group accepted the nominations of Mr. Makoto Yokozawa (Japan), Prof. Dr. Rai Niaz Ahmed



Dr. A.K. Randev and VPH Felix Reinders

(Pakistan) and Mrs. Mira Edelbaher (Slovenia) for the membership. A brief prepared by Mr. Stephen Mills (Australia) on "Irrigation Modernization in Australia" was circulated at the meeting. The Group proposed its work plan up to 2011. As per the updated database of the worldwide sprinkler and micro irrigated area, about 32 million ha were under sprinkler irrigation and about 8 million ha were under micro irrigation. Objectives and subthemes of the '8th International Micro irrigation Congress' to be held in Iran in October 2011 were firmed up.

A half-day special session on "Micro irrigation" was held on 8 December 2009 succeeding to the WG meeting. The main objective of the session was to highlight the recent developments in micro irrigation in major irrigation countries, particularly in India and to share and learn from each other's experiences for sustainable expansion of the technology. Presentations from South Africa, Italy, Germany, Brazil, besides India were made at the session.

Working Group on Water and Crops (WG-CROP)

Year of Establishment: 2007

Webpage: <http://www.wg-crop.icidonline.org/>

Mandate:

- To promote the efficient use of water in crop production;
- To provide input to test crop water models;
- To investigate the use of energy crops for biofuel production;
- To develop techniques for rainfall harvesting;
- To promote the multi-functionality of water use in paddy rice cultivation;
- To investigate the adaptation of agriculture to climate change; and
- To promote low input agriculture.

Members: (1) Dr. Ragab Ragab, Chairman (UK, 1993), (2) (6) Mr. L.C. Tollefson Vice Chairman, 2009 (Canada, 1993); (3) VPH Dr. B.I. Maticic (Slovenia, 1987); (4) Prof. M.E.V. Scarascia (Italy, 1988); (5) Prof. R.G. Allen (USA, 1991); (6) VPH Prof. Cai Lingen (China, 1995); (7) Dr. Y. Nakano (Japan, 1996); (8) Mr. Tai Cheol Kim (Korea, 1996); (9) Mr. Chen Yih-Rong (Chinese Taipei, 2001); (10) Mr. Vincente Carelon (Spain, 2003); (11) Dr. Andrew Sanewe (South Africa, 2005); (12) Dr. Florent Maraux (France, 2006); (13) Dr. K. Yella Reddy (India, 2009); (14) Ms. Jaleh Vaziri (Pakistan, 2009); (15) Prof. Dr. Rai Niaz (Pakistan, 2009); and (14) Secretary General, ICID.

Permanent Observers: (i) FAO Representative; (ii) Mr. Herbert H. van Lier (CIGR); and (iii) Prof. D. Wrachien (Italy).

Activities: The 2nd meeting of the Working Group on Water and Crops (WG-CROP) was held on 07 December 2009 at New Delhi. Dr. K. Yella Reddy (India), Ms. Jaleh Vaziri (Iran) and Prof. Dr. Rai Niaz Ahmad (Pakistan) became new members for WG-CROP whereas Mr. L.C. Tollefson (Canada) became the new Vice-Chairman.

The WG has keen interest in "Precision agriculture" in order to increase water and nutrient efficiency. The Chairman informed

the members about the work carried out on the subject in one of the EU funded project Safe and High Quality Food Production using Low Quality Waters and Improved Irrigation Systems and Management (SAFIR) and invited WG members to download the model developed and related documents from the project website <http://www.safir4eu.org/SAFIR.asp>. SAFIR actively helps develop irrigation management and water-saving technology for the production of high-quality and safe vegetable crops by using low-quality water resources. This is an important contribution to the protection of our environment and to the safety and quality of the vegetables we eat.



Dr. Ragab Ragab

Advantages of using Partial Root Drying (PRD) method to optimize/ minimize use of water and fertilizers were highlighted. The WG has showed deep interest in this area and a couple of presentations will be made during the next meeting in 2010. The WG website will be updated with new input on SALTMED model and related documents. The members have been attempting to get familiar with SALTMED model and provide model data requirements.

The Chairman reported on the achievements of past 10 years of the WG and highlighted the most important outputs. The WG has contributed to the FAO irrigation and Drainage paper 56 which is now used worldwide in estimating the crop water requirement and deciding on the irrigation scheduling. Dr. Srinivas Rao from ICRISAT, India made a presentation during the meeting regarding their experiences with energy crops in India.

The new areas of interest for the WG are- (i) developing techniques for rainfall harvesting, (ii) multi-functionality of water use in paddy cultivation, and (iii) adaptation of agriculture to climate. The WG will organize a workshop titled "Water Savings in Conservation Agriculture" during 61st IEC and 6th ARC in October 2010 at Yogyakarta, Indonesia.

Working Group on the Role of Irrigation on Poverty Alleviation and Livelihoods (TF-POVERTY) Established in 2007

Year of Establishment: 2008

Webpage: <http://afeid.montpellier.cemagref.fr/Poverty/TF-POVERTY.htm>

Mandate:

- Synthesize specific knowledge and experience from the irrigation sector, to design pro-poor actions in a wider understanding of irrigation along the whole rainfed-irrigated continuum (aka agriculture water management),
- Look for technical solutions that work within a clearly defined socio-economic context, so that they can be mobilized in a case specific approach,
- Emphasize multiple-use (MUS) of irrigation systems as a specific approach to alleviate poverty in this context,
- Increasing opportunities for greater and more open



Ms. Zeinab Behairy, Prof. L. Vincent, and PH Peter Lee

participation by the poor, in the development of systems and in the value chain,

- Building accountability mechanisms that give longer term support and commitment to poverty alleviation initiatives, and
- Guidelines supported by case studies on how to enhance the poverty alleviation and livelihood improvement impacts of new and existing projects.

Members: (1) VPH. Dr. Alain Vidal, Chairman (France, 2007); (2) Mr. R.C. Jha, Vice Chairman (India, 2009); (3) Dr. Dennis Wichelns (USA, 2008); (4) PH Peter S. Lee (UK, 2008); (4) Prof. Linden Vincent (The Netherlands, 2008); (6) Mr. Enayal Farhani (Iran, 2009); (7) Dr. Yohei Sato (Japan, 2009); (8) Mr. Hassan Javaid Afridi (Pakistan, 2009); (9) Mr. Andre Roux (South Africa, 2009); (10) Mr. Laurie Tollefson (Canada, 2009); (11) Dr. Adama Sangare (Mali, 2009); and (12) Secretary General, ICID.

Network Members: (1) Dr. Wouter Linklaen Arriens (ADB); (2) Mr. Ian Makin (ADB); (3) VPH Dr. Henri Tardieu (AFEID) (4) Mr. Christelle Pezon (Agro-Paris Tech); (5) Mr. Simon Cook (CPWF-BFP); (6) Mr. Annette Huber-Lee (CPWF); (7) Ms Nancy Johnson (CPWF); (8) Mr. Jonathan Woolley (CPWF); (9) Mr. Jean-Marc Faures (FAO); (10) Mr. Rudolph Cleveringa (IFAD); (11) Mr. Intizar Hussain (INPIM); (12) Mr. Paul Polak (IDE); (13) Mr. Bob Yoder (IDE) (14) Mr. Monqieu Mikhail (IDE) (15) Prof. Barbara van Koppen (IWM); (16) Dr. Andrew Keller (Keller-Bliesner Engineering); (17) Mr. Steve Vosti (UC David); (18) Dr. Salah Darghouth (World Bank); (19) Dr. Julianne Roux (World Bank); and (20) Mr. Mary Renwick (Winrock)

Activities: The WG held its 1st meeting of at New Delhi on 6 December 2009 which was attended by members and 24 observers. The meeting was chaired by Pres. Hon. P.S. Lee and Prof. Linden Vincent acted as the Secretary. PH Lee appraised background in formation of the working group and collaboration with the other international organizations.

VPH Dr. Alain Vidal had expressed continuing interest in WG-POVERTY though he could not join the meeting in Delhi. Nomination of Mr. R.C. Jha (India) was accepted as Vice Chairman. The Group also accepted the nominations from Mr. Enayatollah Farhani (Iran), Dr. Yohei Sato (Japan), Mr. Hassan Javaid Afridi (Pakistan), Mr. Andre Roux (South Africa), Mr. Laurie Tollefson (Canada), and Dr. Adama Sangare (Mali) for membership.

It was proposed that the new WG should be concerned with topics/issues like - improvements in livelihoods as well as productivity, services to the poor, not just farmers, different manifestations of poverty and their definition, affordability of food, not just its cost, wider access to services and opportunities for participation in the value chain, participatory approaches that listen to the poor and are open to ideas (aka accountability), extension of agricultural water management to nominally rainfed areas and general land care", multiple use of farm storage, not just of public systems (e.g., for aquaculture), greater awareness of health impacts and the actions needed. The proposed tenure of the WG to complete its mandate is 2013.

The three-year work plan of the Group was also adopted at the meeting.



Task Forces

Task Force to Guide ICID Inputs to the 5th World Water Forum (TF-WWF 5)

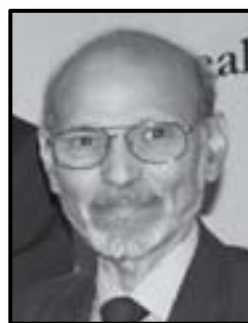
Terms of Reference (ToR)

- To liaise with the 5th World Water Forum Program Committee and other International Bodies;
- To provide overarching lead role on behalf of ICID for inputs to by liaising with -
 - (i) National Committees for inputs to the themes and sub-themes of the 5th World Water Forum that are of direct relevance to ICID, (ii) Coordinating with Workbodies on specific subjects related with 5th World Water Forum;
- To liaise with Turkish National Committee (TUCID) for preparatory work of 5th World Water Forum;
- To coordinate joint contributions with other water-related International Organizations; and
- To suggest ICID inputs for 5th World Water Forum for consideration in IEC.

Members: (1) PH Aly M. Shady, Chairman (Canada); (2) PH Dr. Bart Schultz, Coordinator (The Netherlands); (3) PH Peter S. Lee (UK); (4) President Dr. Chandra A. Madramootoo (Canada); (5) VPH Prof. Hector Malano, Chairman, PCTA (Australia); (6) VPH Dr. Alain Vidal; (7) VPH Prof. Riota Nakamura (Japan); (8) VPH Prof. Victor A. Dukhovny (Uzbekistan); (9) Dr. (Mrs.) Shadan Abdel Gawad (Egypt); (10) Turkish National Committee Representative; and (11) Er. M. Gopalakrishnan, Secretary General, ICID.

Activities: The TF-WWF5 held its third and final meeting on 06 December 2009 at New Delhi, India 7 members and 15 observers belonging to 8 countries (Canada, The Netherlands, France, Australia, Turkey, Iran, Finland and India) and one international organization (the World Bank, Brazil) participated.

VPH (late) H. Tardieu, who chaired the meeting, reported with satisfaction that the question of Water for Food was addressed properly in Istanbul. The Chair appreciated the efforts of the Central Office in bringing out the CD containing the Synthesis Report of Topic 2.3 which was distributed to all members as well as observers present at the meeting. The CD also provided the PowerPoint presentations made at various sessions and the comments that were made during the presentations. Thus, it turned out to be a comprehensive report on the Topic 2.3 that



PH Aly M. Shady



PH Prof. Bart Schultz

was coordinated by ICID in WWF-5. It was noted that in addition to the presentations on Topic 2.3, ICID also contributed to Sessions 1.1.3, 1.2.3, 1.3.3, 2.2.1, 2.4.2, 3.2.3, 3.3.3, 3.3.4, 4.2.4, 5.1.4, 6.3.2, Topic 5.2, and Sessions on Drought, Water Management 2020, Mega disasters, and Irrigation. In the Session on Drought, VPH Dr. Saeed Nairizi, Iran, described activities related to drought, water scarcity and risk management dealt by ICID. President Chandra Madramootoo presented the overall conclusions of the topic 2.3 'water and food for ending poverty and hunger'.

The TF closed its activities on completion of its mandate. The TF recorded its heartfelt thanks to the Chair, PH Aly Shady, PH Bart Schultz, Coordinator for Topic 2.3, VPH (late) H. Tardieu, Secretary General Gopalakrishnan and Central Office for their work and efforts.

A synthesis report covering the key questions and overall conclusions and recommendations of the Topic 2.3 'Water and Food for ending Poverty and Hunger' was brought out in a booklet. The booklet also includes a CD-ROM containing the full report together with the presentations made in various sessions. The booklet was widely distributed among all national committees and other concerned.

Members suggested providing ICID's concern to WWF-6 which will be held in Marseilles, France in 2012. Rainfed agriculture, urban agriculture, multiple uses of water, environmental aspects of water for agriculture, and biodiversity and environmental flows were important aspects that needed consideration. Secretary General Gopalakrishnan proposed that all those members of ICID fraternity who will be available at the kick-off meeting of WWF-6 in Marseilles in March 2010 would take up these issues and see where and how these could fit in the WWF-6.

Task Force on Financing Water for Agriculture (TF-FIN)

Year of establishment: 2007

Terms of Reference (ToR)

The focus of the TF was to get a better understanding and insight (assessment) of the demand for financing; for whom are those investments in agriculture water; the present financing mechanisms, constraints met from the demand side, and the changes and innovations for more appropriate mechanisms to enable better access to finance.

Members: (1) Dr. G.R. Backeberg, Chairman (South Africa, 2009); (2) Mr. Eric Viala, Vice Chairman (USA, 2009); (3) Mr. Sylvain-Roger Perret, Secretary (France, 2009); (4) VPH Dr. Henri Tardieu (France, 2009); (5) Mr. K. Farhadi (Iran, 2009); (6) Dr. K. Yamaoka (Japan, 2009); (7) Mr. V.K. Chawla (India, 2009); (8) Dr. Brian Davidson (Australia, 2009); and (9) Dr. Vijay Labhsetwar, Director (Coordinator, ICID CO).

Activities: The 3rd meeting of Task Force on Financing Water for Agriculture (TF-FIN) was held on 07 December 2009 in New Delhi. Dr. G. Backeberg (South Africa) became the new Chairman, while Dr. Sylvain Perret (France) became the new Secretary of the TF. Nominations of Mr. E. Farhadi (Iran), Dr. K. Yamaoka (Japan), and Mr. V.K. Chawla (India) were accepted as members.

During the internal workshop of TF titled "Development and financing of irrigation schemes", Dr. Gerhard Backeberg presented his opening paper and stressed that the development and operation of a publicly funded irrigation scheme involves many actors, with the Government as a key driver in the process. Dr. Backeberg suggested that Gittinger provided an excellent basis upon which to make the required assessments.



3rd meeting of TF-FIN

Dr. Brian Davidson (Australia) argued that many assessments of engineering projects do not take account of the basic principles of economics. He outlined the fundamental principles of markets that need to be understood and a number of simple extensions that should be incorporated into any future assessments. Dr. Sylvain Perret presented an assessment of an irrigation scheme in South Africa.

It was agreed to redefine the aims of the TF in line with those presented in the background papers. It was stressed not to rewrite existing literature on the economic evaluation of publicly funded irrigation and drainage systems. It was agreed to focus on extensive area of user charges and its associated economic influences. It was proposed to organize a set of workshops during ICID annual meetings. The members were encouraged to present on the methods of imposing user charges in their country during the next meeting of TF in October 2010. Draft guidelines for case studies to be presented on "principles and practices of water charging systems in irrigation: cross-country experiences" will also be prepared.

Task Force for Identifying Priority Issues for least Developed Countries in Africa (TF-LDCsAF)

Year of Establishment: 2005

Mandate:

- To create a knowledge base to understand the problems faced by Least Developed Countries in Africa;
- To work out requirements of the LDCs; and
- To identify level and extent of support from ICID and explore the avenues for bilateral/multilateral cooperation.

Members: (1) VPH Engr. I.K. Musa, Chairman (Nigeria); (2) Dr. H. Fahmy (Egypt); (3) Dr. S. Mkhize (South Africa); (4) Mr. Makonnen Loulseged (Ethiopia); (5) Mr. Moise Sonou (ARID Representative); (6) Secretary General, ICID; and (7) Dr. S.A. Kulkarni, Executive Secretary, ICID, Coordinator.

Activities: The 5th meeting of TF-LDCsAF was to be held on 7 December 2009. Only 3 observers from South Africa and

Mali were present. Dr. S.A. Kulkarni, Executive Secretary, briefed about the status in preparation of the final report of the TF at the meeting. The final revised version of the Task Force report by merging the draft versions as prepared by Chairman Engr. I.K. Musa and Dr. Sizwe Mkhize, the then Chairman, AFRWG and comments provided by Mr. Loulseged Makonne was circulated at the AFRWG meeting on 6 December 2009.



VPH I.K. Musa

An article titled 'Priority Issues of Least Developed Countries in Africa' authored by Engr. I. K. Musa was published in the Special issue of the Irrigation and Drainage, Vol. 58, February 2009. The issue was published on the occasion of the 5th World Water Forum held at Istanbul in March 2009. The TF has concluded its activities.



Key ICID Events



60th International Executive Council (IEC) meeting and 5th Asian Regional Conference (ARC) at New Delhi



The 60th International Executive Council (IEC) meeting and 5th Asian Regional Conference (ARC) of the International Commission on Irrigation and Drainage (ICID) were held during 6-11 December 2009 at Vigyan Bhawan in New Delhi. The event marked the 60th anniversary of the foundation of ICID in India. The theme of the 5th Asian Regional Conference was "Improvement in Efficiency of Irrigation Projects through Technology Upgradation and Better Operation and Maintenance".

During the event, over 32 ICID Workbody meetings and 8 Special Sessions were held. In all 242 papers were received for 5th Asian Regional Conference and were presented in 20 technical sessions. The event was hosted by the Indian National Committee on Irrigation and drainage (INCID) under the leadership of Mr. A.K. Bajaj, Chairman of Central water Commission (CWC) / INCID with the organizational support from Central Board of Irrigation and Power (CBIP). More than 740 delegates from over 47 countries, representatives from International Organizations participated in various events to make it very successful.

The 5th Asian Regional Conference was inaugurated by Hon'ble Prime Minister Dr. Manmohan Singh. Mr. Pawan Kumar Bansal, Hon'ble Union Minister of Water Resources, Mr. Vincent H. Pala, Hon'ble Minister of State for Water Resources, Mr. U.N. Panjiar, Secretary of Ministry of Water Resources, Mr. A.K. Bajaj, Chairman, Central Water Commission / Indian National Committee of ICID, Prof. Dr. Chandra A. Madramootoo, President of ICID graced the occasion.

Hon'ble Union Finance Minister Mr. Pranab Mukherjee was the Chief Guest for the Closing Ceremony. Mr. Pawan Kumar Bansal, Hon'ble Union Minister of Water Resources, Dr. Montek Singh Ahluwalia, Deputy Chairman, Planning Commission, Mr. Vincent H. Pala, Hon'ble Minister of State for Water Resources, Mr. Sachin Pilot, Hon'ble Minister of State for Communications and Information Technology, Mr. U.N. Panjiar, Secretary of Ministry of Water Resources, Mr. S. Manoharan, Additional Secretary, Ministry of Water Resources, Mr. A.K. Bajaj, Chairman, Central Water Commission / Indian National Committee of ICID, Prof. Dr. Chandra A. Madramootoo, President of ICID graced the occasion.

Irrigation Improvement Must for Agriculture Growth: Prime Minister of India

Public investments will have to be raised to improve efficiency and spread of irrigation facilities, and thereby push growth in the agriculture sector, Prime Minister Dr. Manmohan Singh said in his inaugural address of the 5th Asian regional Conference.

He also said his government “was sharply increasing” public investment in agriculture.

This, Dr. Singh said, was aimed at doubling the annual growth rate in the sector to 4 % in the 11th Plan period that ends 2012. “The most important area for investment in agriculture relates to the provision of water and its most efficient use. In fact, we hope to be able to add about 16 million hectares to the irrigated area during the 11th Five-Year Plan,” he said.

The Prime Minister said that there is a scope for substantial improvement in the efficiency of the irrigation system. An assessment of the irrigation system in India indicates that efficiencies of surface water systems can be improved from the present level of 35% to about 60% and that of groundwater systems from the existing 65% to about 75%. Similar situations prevail in most developing countries in Asia and we have a great deal to learn from each others experience. Utilization of created irrigation potential is another crucial issue. In India only about 84% of the created irrigation potential has been utilized thus far. “All these options have to be explored and collaboration in research among countries represented here shall be a very important, fruitful collaborative exercise to improve the efficiency of water and promote its sustainable use” said the Prime Minister.

According to the Prime Minister Singh, India’s challenge of managing water resources in a rational and sustainable manner will require action on many fronts and coordination across different sectors of the economy”. “In India, we have tried to address these complex inter-relationships through the formulation of a National Water Mission, which is one of the eight national missions that are part of our National Action Plan on Climate Change” said the Prime Minister. Some of the key action areas of the National Water Mission are: (i) Placing of a comprehensive water data base in the public domain and assessment of the impact of climate change on water resources; (ii) Promotion of citizen and State actions for water conservation, augmentation and preservation; (iii) Focused attention to over-exploited groundwater areas; (iv) Increasing water use efficiency by at least 20%; and (v) Promotion of basin level integrated water resource management.



*Dr. Manmohan Singh,
Prime Minister of India*

The Water Mission will seek to develop new regulatory structures, combined with appropriate entitlements and pricing of water. It will seek to optimize the efficiency of existing irrigation systems. Incentive structures will be designed to promote water-neutral or water positive technologies, recharging of underground water sources and adoption of large- scale irrigation programs that rely on sprinklers, drip irrigation and improved surface irrigation methods.

An expansion of irrigation and improvement in irrigation efficiency are thus key not only to improving agricultural productivity but also to our strategy for sustainable water use. There has to be a greater synergy between our agricultural policies and our water policies with a view to securing food supply, especially to the poor and vulnerable sections of the population, through more efficient and sustainable use of scarce water resources.

Prime Minister Singh emphasized that water-related issues need to be addressed with the full involvement of the local communities and take into account specific local conditions and concerns. Farmers as principal stakeholders should be consulted in any agricultural water management initiatives. Women play a key role in food production activities in a large number of countries. Therefore, a special effort should be made to involve women in process of decision-making.



Six Decades of ICID Contribution to Enhance the Productivity of Irrigated and Drained Lands: President Chandra Madramootoo



President Chandra Madramootoo

President Chandra Madramootoo in his inaugural speech said that ICID - the largest international organization dedicated to enhance the worldwide supply of food and fibre, by improving water and land productivity. This is achieved through the Commission's 108 member country network, active national committees and committees of experts who are best placed to finding solutions to the problems of water for food security. "We will have failed our children and their children, through our inaction. But I believe that ICID has made many positive strides to enhance the productivity of irrigated and drainage lands over the past 6 decades, and I am even more convinced that, as a collective group of international experts, we have the determination to make further technical, institutional and social-

economic breakthroughs in the future" said the President. We all have shining examples, in our respective countries, of solid achievements in the irrigation and drainage sector, which have boosted the food producing potential of our patrimonial lands.

The FAO estimates that an additional 100 million people in the world have been deprived access to adequate food in the past year, as a result of the current food crisis, and the number of people estimated to be undernourished is over 1 billion. Very startling statistics indeed! "This statistic is even more dramatic when we consider that food production will have to double in the next 25 years or so, to meet rising population levels. The question is how we will accomplish this task, given the current drivers of water scarcity and climate change, which are affecting the sustainability of our food production system" said the President. The recent G8 and G20 summits in L'Aquila, Italy have therefore rightly placed food security and the water crisis at the top of the global development agenda.

President Madramootoo congratulated the Government of India for its significant investments in agriculture and water resources development over the decades, and its extensive efforts at boosting food production, in order to satisfy the demands of the poorest of the poor. He lauded the efforts of the Government of India, policy makers, scientists, and farmers in achieving food security which is some of the worlds hardest of climatic extreme countries. In the last 50 years, the country has quadrupled food grain production from 50 million tones to over 200 million tones. President on behalf of all the National Committees and members of the ICID family expressed deepest gratitude to the Government and people of India for their generosity towards hosting the ICID Headquarters in New Delhi over the past six decades.



Key Highlights

A Special Postal cover marking the 'Diamond Jubilee Year' (1950-2009) of ICID was released by Mr. Sachin Pilot, Minister of State for Communications and Information Technology, in the presence of Mr. Pawan Kumar Bansal, Minister of Water Resources and Dr. Pranab Mukherjee, Finance Minister, Government of India during the Closing Ceremony.



Mr. Pawan Kumar Bansal, Minister of Water Resources, Mr. Sachin Pilot, the Minister of State for Communications and Information Technology, and Dr. Pranab Mukherjee, Finance Minister

Memorandum of Understanding (MoU) was signed for Bilateral Collaboration between International Commission on Irrigation and Drainage (ICID) and Ministry of Energy, Islamic Republic of Iran through Iranian National Committee on Irrigation and Drainage (IRNCID).



Mr. Mohammad Reza Attarzadeh, Deputy Minister for Water and Waste Water Affairs (Iran), VPH Saeed Nairizi, President Chandra Madramootoo, and Secretary General M. Gopalakrishnan

Glimpses of the New Delhi Event

Dignitaries addressing the event



Dr. Manmohan Singh
Prime Minister of India



Dr. Pranab Mukherjee
Union Finance Minister



Mr. Pawan Kumar Bansal
Union Minister for Parliamentary Affairs and
Water Resources



Dr. Montek Singh Ahluwalia
Deputy Chairman
Planning Commission



Mr. Sachin Pilot
Minister of State for Communications and
Information Technology



Mr. Vincent H. Pala
Minister of State for Water Resources



Mr. Vincent H. Pala
Minister of State for Water Resources
releasing the publication of INCID



A view of the inaugural session



A view of the 60th IEC meeting



President Madramootoo discussing
with Dr. Montek Singh Ahluwalia,
Deputy Chairman, Planning Commission



VPH (late) Henri Tardieu receiving a plaque
from President Madramootoo



A view of the exhibition

Technical Sessions of the 5th ARC



New Chairs, Vice Chairs and Secretaries of Workbodies:

- Vice Presidents Dr. A. Hafied A. Gany (Indonesia) and Mr. Shinsuke Ota (Japan) will serve as Chairman and Vice-Chairman of PCSPOA, respectively.
- Dr. Kamran Emami (Iran) will serve as new Chairman of WG-HIST.
- Dr. Gerhard Backeberg (South Africa) will serve as New Chairman of TF-FIN.
- Ir. Henk P. Ritzema (The Netherlands) and Dr. Ruey-Chy Kao (Chinese Taipei) will serve as new Vice-Chairman and Secretary of the WG-SDTA, respectively.
- Dr. Laszlo G. Hayde (Hungary) will serve as new Vice-Chairman of PFC.
- Mr. R.C. Jha (India) will serve as new Vice-Chairman of TF-POVERTY.
- Dr. Kamran Emami (Iran) and Dr. Takao Masumoto (Japan) will serve as new Vice-Chairman and Secretary of the WG-CAFM, respectively.
- Dr. Marcel Kuper (France) and Dr. Bruce Lankford (UK) will serve as new Associate Editors of the EB-JOUR.
- Mr. L.C. Tollefson (Canada) will serve as new Vice-Chairman of the WG-CROP.
- Dr. Ray Shyan Wu (Chinese Taipei) will serve as new Secretary of WG-CLIMATE.
- Dr. Adama Sangare (Mali) and Mr. Andrew Sanewe (South Africa) will serve as new Chairman and Vice Chairman of AFRWG, respectively.

New Task Forces

- Task Force on 'Water for Bio-Energy and Food'
- Task Force on 'Sedimentation of Reservoirs'

Re-named ICID Workbody/ Newsletter

- ST-ARAL renamed as 'Working Group on Irrigation and Drainage in States with Transition Economy'
- ICID quarterly Newsletter renamed as 'ICID News'

Publications released

- Water Resources Development in India, by INCID
- CD-ROM Version of Multilingual Technical Dictionary on Irrigation and Drainage, by ICID
- CD-ROM Version @ 60 (CD-ROM), by Central Office ICID

New Member Countries of ICID

- Applications for the membership from Cameroon and Fiji were accepted

Congresses / Conferences / Workshops Approved

- WG-CROP proposes to organize a workshop on "Water Saving and Conservation" October 2010 at Yogyakarta, Indonesia.
- 24th ICID European Regional Conference, December 2010 at Orleans, France.
- 25th ICID European Regional Conference, 16-20 May 2011 at Groningen, The Netherlands.
- 3rd African Regional Conference, Mali, 2011
- 63rd IEC and 7th Asian Regional Conference, 2012, Adelaide, Australia.
- 65th IEC and 22nd ICID Congress, 2014, South Korea



New ICID Vice Presidents (2009-2012)



Dr. Willem F. Vlotman (Australia)

Dr. Willem F. Vlotman (b.1952) obtained B.Sc. in Civil Engineering (1975), M.Sc. in Agricultural Engineering (1982), Ph.D in Irrigation and Agricultural Engineering (1985), and MBA in Agribusiness (2004). Presently, he is the Assistant Director, Basin Plan Modeling, Murray Darling

Basin Authority, Canberra. He has more than 34 years of experience in channel hydraulics and hydrology; water simulation models, water management; application of chain management; optimizing crop production; computer programming and modern computer software applications; extensive experience in Institutional Strengthening and Organizational Development of research organizations, Human Resources Unit and Marketing and Public relations Unit. Dr. Vlotman is also associated with various Professional Societies.

Dr. Vlotman authored/ co-authored 7 books, 70 reports and working papers, 57 technical papers. In ICID, Dr. Vlotman is the Strategy Theme Leader of 'Systems', Chairman, WG-DRG, Secretary, WG-MIS, and Observer in ASRWG.

27 years of experience in consulting, education and research in: Water and environmental planning and management, hydraulic engineering, fluid mechanics, EU Water Framework Directive, environmentally sound solutions in Hydraulic engineering, environmental impacts and assessment; 19 years of experience in education management, organization of educational programs, curricula development etc. He is also associated with various professional societies. Dr. Hayde has authored and co-authored 1 book, 2 book chapters, 2 Journal papers and 5 peer reviewed publications.

Dr. Hayde has been Secretary General of HUCID (2002-2005) and became Vice President of HUCID in 2008. At present, Dr. Hayde is Secretary of ERWG, Members of WG-HIST, and Vice Chair of PFC. He has edited the ICID Publication "Danube Valley, History of Irrigation and Flood Control" in 2004.



Dr. Laszlo G. Hayde (Hungary)

Dr. Laszlo G. Hayde (b.1958) obtained Doctorate in Fluid Mechanics from Technical University, Budapest (1995), M.Sc. in Civil Engineering (Specialization in Hydraulic Engineering, 1982). At present Dr. Hayde is working as Senior Lecturer in Irrigation Engineering,

UNESCO-IHE, The Netherlands. Dr. Hayde has more than



Mr. A.K. Bajaj (India)

Mr. A.K. Bajaj (b. 1951) obtained B.E. Hons. in Mechanical Engineering and M. Tech in Fluids Engineering and Water Resources. He is the Chairman, Central Water Commission (CWC) and Ex-officio Secretary to Government of India, Ministry of Water Resources since April 2008.

Mr. Bajaj has more than 35 years of experience in Planning, design and conceptualization of Water resources of the country at macro level, appraisal of major and medium multipurpose water resources projects, undertaking flood management activities on an annual basis and advising the Central Government. He has written many technical papers which have been presented or published in various Journals. In ICID, Mr. Bajaj is a member of PCTA, ICID Staff Committee, and PFC.



Secretary General ICID

Secretary General M. Gopalakrishnan's tenure stood extended by another year (till December 2010).

ICID Awards

WatSave Awards

Prof. Dr. Rai Niaz Ahmad (Pakistan) received ICID Watsave Technology Award 2009 for his innovative water saving contribution. He has designed and developed an '*Innovative Bed Seeder*' to prepare raised bed and furrows and sow wheat, rice, maize, and cotton. Layouts prepared using this machine could achieve up to 50% saving in irrigation water and up to 25% increase in crop yields compared to traditional surface irrigation layout. The 'Bed Seeder' is operated by a tractor and develops two beds and three furrows, sow seeds and apply fertilizer, simultaneously. It is designed to sow four rows on one bed, while maintaining the traditional plant population. Each furrow irrigates only 20 cm of the adjacent bed. The center to center distance between two beds is 90 cm while the bed width is 60 cm. The cost of the machine is about US\$ 1000 and the Government of Pakistan is providing 50% subsidy to farmers for purchase of the machine.



Messrs Shahaji Somawanshi, Bharat Kawale and Sanjay Madhukar Belsare from India received the 'Innovative water management' award for their work on '*Transformation of irrigation through management transfer*'. Participatory Irrigation Management (PIM) was introduced in Waghad irrigation scheme in 1990 with 3 Water User Associations (WUAs). In 2004, 24 WUAs took over the operation and maintenance of the entire irrigation scheme. Water is supplied volumetrically at the head of canal and subsequently the Project Level Water Users Association (PLWUA) distributes the water among 24 WUAs as per their demand and entitlements. The PLWUA collects water charges from its member associations. Management transfer to PLWUA has resulted in 100% utilization of irrigation potential, saving

in water, crop diversification, and 100% collection of water charges. The area irrigated increased from 3,212 ha to 10,750 ha after the management transfer over a period of 15 years.

Dr. Malcolm Gillies (Australia)' work on "*Observational Approach to the Optimization of Surface Irrigation*" won him the 'Young Professionals' award. He developed and applied an innovative and advanced simulation tools for the evaluation and optimization of surface irrigation system. Performance gains (water savings) over 20% are readily achievable in surface irrigation systems through the process of evaluation and practice change. Surface irrigation remains the dominant irrigation method in Australia at 70% of the total area irrigated. Measurements of performance across the main surface irrigated crops (cotton, grains, sugar and pasture) show application efficiencies ranging from 20% to 90% but averaging about 50%. Selection of more appropriate flow rates and irrigation times as per the soils can raise average efficiencies above 70%.



Special Recognition Award for a Farmer

Mr. Arvind Narayanrao Nalkande, a farmer from India received a special recognition by the 'Panel of Judges' for his water saving initiative on "Rainwater Conservation through Natural Cracks in Deep Black Soils". About 4692 sq. km area of the Purna valley of Maharashtra State is characterized by high clay content (50-70%), alkaline in reaction, calcareous with slow permeability. The soils have low hydraulic conductivity and thus become susceptible to poor drainage. Some areas have sodicity problem in the sub soil. The farmers of the valley face problems like water stagnation in rainy season, poor drainage, deterioration of soil structure, moisture stress and soil erosion. Keeping in view the problems at grass root level, Mr. Arvind Nalkande adopted a simple affordable and efficient technique of

rain water management and soil erosion control like use of natural soil cracks for conservation of rainwater, contour cultivation for in situ soil and water conservation, use of farm pond for collecting runoff, and reuse of water from farm pond as a protective irrigation during prolonged monsoon break. Thus, due to in situ rain water conservation he could maximize productivity per unit area and per unit of water. He practiced these techniques in his own field and after visible benefits, he demonstrated these techniques to the farmers and later implemented on many farmers field in his village.



Best Paper Award

The Award is given to the best paper published in the issues of the ICID Journal Irrigation and Drainage in the preceding year. The Best Paper Award 2009 is awarded to Ms. Jianxin Mu (China), Dr. Shahbaz Khan (Australia); and Dr. Gao Zhanyi (China) in recognition of their outstanding paper titled "Integrated Water Assessment Model for Water Budgeting Under Future Development Scenarios in Qiantang River Basin of China" published in Issue 57.4 of the Journal. The award was a citation plaque and Gift Books from M/s. Wiley-Blackwell (UK), the publisher of the Journal.



Special Sessions

On the sidelines of the 60th IEC meeting and 5th ARC, eight special sessions of current importance were held. The following are the key output of each of the sessions.

Groundwater

Groundwater resources have been playing an increasingly important role in the economic development of many countries in the world. In developing countries, the proportion of people who depend on groundwater for potable water supply is generally much higher than the global average. The session highlighted various strategies being adopted to address emergent groundwater management issues in order to ensure sustainable management of groundwater resources. The following recommendations emerged:

- There is an urgent need for coordinated efforts by various Governments and non-governmental agencies, civil society organizations and the stakeholders for evolving practical plans for effective management of groundwater,



- Factors responsible for the imbalances in groundwater utilization in parts of India, in terms of technical and socio-economic considerations should also be taken into consideration while formulating any comprehensive water resources management initiatives,
- There is an urgent need to shift the focus from supply side to demand side management to deal with problems related to water scarcity,
- Mobilization of civil society and the community for action on natural resource management and conservation for rural uplift is vital for saving the environment and bringing prosperity to the rural communities. Community management of groundwater resources needs to be encouraged through piloting, replication and scaling up of promising ideas,
- In view of the increasing importance of community participation in demand management of groundwater, Government agencies should do the role of facilitators of groundwater related information instead of technical experts,
- National policy should be formulated for protection of natural recharge sites of confined aquifers and more recharge schemes should be implemented in such areas for augmentation of groundwater resources, and
- A comprehensive framework for integrated management of water resources needs to be formulated in predominantly agricultural areas.

Mekong River Commission

An overview of the Mekong River Basin's resources, development opportunities, and challenges were the highlights of this Special Session. The importance of regional cooperation particularly, 'Basin Development Process' for the water resources development and planning was emphasized. The resettlements related issues are managed on 'project by project basis'. Rules and procedures for water utilization have been negotiated, agreed and approved by MRC Council. These include procedures for data and information exchange and sharing, procedures for notification and prior consultation and agreement, water use monitoring, maintenance of flows on the mainstream, and water quality. The minimum flows of the Mekong River will be implemented based on the procedures for maintenance of flow on the mainstream following the 'Technical Guidelines' being drafted by the MRC member States. The Climate change may not be a major issue for the Mekong basin; however, rapid



developments in the basin in the next 20 years will have potential impacts like increase in salinity intrusion on Vietnamese delta, impacts on mangrove forest, accelerated coastal erosions etc. Integrated river basin development planning might be difficult to achieve without active participation of the upstream countries.

The MRC has strong modelling tools; however, fishery impacts could not be calculated using hydrological and hydrodynamic models. The big challenge for MRC would be to harmonize and satisfy all those needs of the riparian states in the near

future. Basin development planning programme would be an important tool in bringing the integrated basin perspectives into national planning, and for sustainable development and management of water resources.

Water Governance

The Middle Eastern Water Governance Benchmarking Project was devised to characterizing countries' capacity for water governance: it has evolved a methodology for assessing and benchmarking national level water governance. An overview of the water governance concepts, the project's approach to assessing water governance, and the online database for the project



(www.rewab.net), which enables researchers to query policy and legal documents in the database was presented. Good water governance in combination with physical infrastructure is the key to the effective, fair, and efficient sharing of increasingly scarce water resources. It was suggested to recognize importance of dealing with variability and the differences in practicing water governance in closed and open basins. Indonesian case of dealing the challenges of governing multiplicity of organizations involved was mentioned. The importance of developing sound indicators of the quality of water-related services, the relationship between water governance and Integrated Water Resource Management (IWRM), and the challenges of scaling up a water governance assessment program was emphasized. It was concluded that trans-boundary basin governance is a perspective that strives for sustainable, equitable and efficient water resources management, while incorporating the political realities of international borders. Building the capacity of trans-boundary institutions is a key to mitigating future conflicts over international water resources.

Micro irrigation

The session discussed the status of micro irrigation development, range of policies and success stories in some countries like Brazil, Germany, Italy, with a special focus on India. While appreciating successful application of micro irrigation at micro-level was lamented and highlighted particularly. The key policy issue that seems to hinder up-scaling of micro irrigation technology worldwide is the rational pricing of water; technological gap and lack of awareness were emphasized. Major recommendations emerged were as follows:

- Application and standardization of sensor technologies and automation not only in orchards but in grain crops also for measurement of soil properties, soil moisture dynamics and capacitance measurement have to be taken up at field level with micro irrigation,
- Micro irrigation is a complex combination of technology and science and thus awareness creation and capacity development are critical at various hierarchical levels i.e. from farmers to the top policy planner,
- Efforts should be made to develop of low cost automation in micro irrigation system for resource poor farmer of various countries,
- Efforts should be taken to document success stories how



micro irrigation improves quality and yield, save water, labour and energy, minimize input losses of fertilizer and pesticides and maximize profit,

- Scope and prospects of micro irrigation includes drip Irrigation, bioplastics, Mobile Drip Irrigation (MDI) and Precision Mobile Drip Irrigation (PMDI) needs to be documented for their large scale adoption at field level, and
- Document successful Irrigation strategies for popularization in other parts of the world, and
- Establish a sustainable, profitable and quality food production system for the farmers.

Agricultural Drainage

For sustainable productivity of irrigated agriculture, some form of drainage provision is essential. The objective of the session was to highlight the key developments in the area of drainage for semi- arid and humid regions including socio-economic and environmental issues, drainage materials and advanced diagnostic and prognostic tools. Presentations were made by experts from Australia, Canada, and India. The following is the summary of key presentations:

New drivers of drainage and irrigated water resources management deal with environment, modernization and climate change issues to ensure basin – level sustainability based on uniform water laws. Recent management tools and models such as DRAINFRAME, MASCOTTE and Global Reporting Initiatives are useful in benchmarking drainage systems with key performance indicators to evaluate the performance of irrigation and drainage projects.

Pharmaceuticals used for human and intensive veterinary medicines for cattle are entering into the food chain through soil, surface and ground water, river and drinking water systems. The treatment plants are not equipped to deal with these contaminants, which have serious implications on aquatic, animal and human life and soil organisms. The concern of pollution by pharmaceuticals is growing in developed as well as developing countries. There is urgent need to understand different dimensions of the problem and to find preventive and remedial measures. Encouraging results on the use of constructed wetlands as effective biogeochemical filters to remove various organic and inorganic pollutants from waste



waters were obtained in Canada.

In India, subsurface drainage has been successfully implemented for control of water table and soil salinity and to improve crop yields. However, socio-economic issues on acceptance and operation of large scale subsurface drainage projects and options for disposal and management of saline drainage effluent are the main concerns.

There is a need to conduct research on controlled drainage, application of field and regional models in association with remote sensing, GIS and geophysical (resistivity, electro-magnetic) techniques for characterizing, planning and management of regional salinity and drainage projects. A recommendation that envelope is not needed in soils having more than 40% clay and SAR < 15 has implication for other drainage projects.

It is necessary to integrate different options and derive suitable mechanisms to control waterlogging and soil salinity for sustainability of agriculture and environment.

Participatory Irrigation Management

Promotion of participatory irrigation management (PIM) through creation of Water Users Associations (WUAs) has been actively pursued in various states of India since over two decades. The WUAs is expected to take over management of the irrigation system within its operational area, maintain and operate the system, so that the irrigation water is provided to all the farmers in its area in a dependable and equitable way, increasing overall irrigation efficiency. It also aims to improve crop productivity and ensure social justice to all the farmers in the area. For facilitating the working of WUA many state governments have enacted suitable legislation or amended the existing laws. Capacity building of the WUAs to make them competent to manage and operate the system is also taken up. Financial support is made available to WUAs in many states by way of providing specific grants, sharing of water taxes, etc. The session was specially organized to discuss strength and threats of PIM in India and to come out with some specific suggestions for its successful upscaling.

For the sustainability of the WUAs, it is essential to continuously learn from field experiences and improve the functioning of the WUAs and work for overcoming the various bottlenecks. Interaction between farmers, WUAs, and field officers from different states can be an effective tool in this direction.

The WUAs and their federations, as permanent institutions, should be formed in all irrigated commands with full autonomy. Capacity building activities should be intensified, covering



various aspects like maintenance of infrastructure, crop water requirement, on-farm developments, etc. Bulk water supply on volumetric basis should be made to the WUAs and the WUA in turn may distribute water to farmers on area/ crop or time basis adopting a proper schedule of rotation.

Women representatives should invariably be on the managing committee of WUA. Collection of water charges should be entrusted to the WUAs with appropriate power to penalize offenders/ defaulters. The WUA may be allowed to retain its appropriate share from the water charges.

For financial sustainability of WUAs, system should be properly rehabilitated before handing over. All works of maintenance within the area of operation of a WUA should be entrusted to the farmer's organization, under the technical guidance of the competent authority.



Aral Sea Basin

The Aral Sea region is one of the prominent regions in the world where methods and approaches to solve the complex water and food security problems related to transboundary Rivers and the increased stress related to climate change and social problems were tried out. Here the cooperation scenarios between not only the water management organizations but at the inter-sectors level to overcome competition especially between irrigation, power engineering and ecology also are tried out.

Strong political will of the Governments of the basin countries on the cooperation development is essential. Tajikistan has demonstrated the role and importance of water management

improvement as the key sector of its development and progress. The country has accepted the limit of total water use as 80 billion cubic meters per year. Experience of countries, which obtain up to 4 tons/ha using 5000 m³/ha in the similar natural and climatic conditions, indicates the great potential of water saving. Uzbekistan now has reached close to self-sufficiency in food even under water deficiency of 20% annually from the agreed water allocation limit of transboundary rivers.

Problems on use of transboundary water resources of Central Asian rivers have to be solved in consideration of interests of more than 50 million people living in all countries of the region. Any action implemented on the transboundary rivers must not negatively affect the existing ecological and water balance of the region. Various international legislations on water use and ecology have to become the basis for development of the efficient system on the transboundary water resources sharing in Central Asia.

The projects on transboundary rivers including the hydraulic engineering construction should be implemented after preliminary comprehensive independent expertise under transparency principle and with full involvement of stakeholders. It was noted that Central Asia has advanced further on development of its approaches for impact assessment on transboundary waters and on implementation of IWRM.

Future of Irrigation in Asia

Irrigation will continue to play an important role in Asia in view of the recent food crisis and climate change threats. By 2050, population in Asia will reach 5.0 billion people, up from 3.5 billion in 2000. In much of Asia, land and water resources are already used intensively and there is not much scope for expansion. While a judicious combination of unlocking value from rainfed farming, sustainable use of groundwater and international trade in food grains has the potential of providing the extra food that Asian population will need by 2050. Increasing productivity in irrigated lands would still remain central in meeting the food demand. Groundwater irrigation plays a significant role and irrigation reform is needed to make it perform better. However, virtual water trade would remain politically challenging solution. And the dependence on rainfed farming alone could be risky. The use of the term “atomistic irrigation” to describe groundwater irrigation is not appropriate since, groundwater use is often enabled through surface water recharge and through electricity subsidies and hence interconnected with other sectors of the economy. There was limited success to PIM/IMT in Asia so far but ways and means to enhance its value are tried. Water productivity can be worked out from the district to sub-district level to national



and the basin level, using both conventional measures as well as remote sensing techniques. There is a scope in improving water productivity through increasing crop yields, wider access to groundwater irrigation, improved farm management practices, multiple use of water for irrigation as well as fish production and on farm water harvesting. The access to irrigation and levels of poverty were closely correlated and provision of irrigation can be a powerful tool for poverty alleviation.



Managing Water for Food and Rural Development: An European Outlook

23rd European Regional Conference (ERC) of the ICID was held in Lviv, Ukraine during 18 - 21 May, 2009 on the theme 'Progress in Managing Water for Food and Rural Development'. The conference was organized by the Ukraine National Committee (UACID) in cooperation with the European Regional Working Group (ERWG) of ICID. Professionals from Bulgaria, Germany, Hungary, Iran, the Netherlands, Poland, Romania, Russia, Spain, Ukraine, United Kingdom, and Uzbekistan participated in the conference. Some key Office Bearers like Chairman, ERWG and Vice Pres. Eiko Lübke, Pres. Hon. Bart Schultz, Pres. Hon. Peter Lee, and Secretary General M. Gopalakrishnan joined the event. A brief:



Participants at 23rd ERC

The 23rd European Regional Conference of ICID focused on the issues related to flood control, water demand, application of GIS technology in water management, development of management plans for river basins, and impact of climate change as evidenced from the increase in the frequency of floods and droughts all across the Europe. The young professionals discussed about their roles in decision making process on topical questions in the context of water and land management for food and rural development. As an outcome of the Conference, the 'Lviv Declaration' was brought out.

Conclusions and Recommendations

- There is a good development with respect to integrated management of water and land resources - covering policy development, stakeholder participation, actual implementation, modeling, data collection, storage and dissemination.
- More and more projects are being developed and implemented in an integrated way, by taking into account social conditions, stakeholder participation, possible impacts of climate change, technical, economic, gender, and environmental aspects. However, more experience still has to be gained to improve these aspects. This will be especially important during the operation and maintenance phase of rural development projects.
- Primarily due to human activities as well to a certain extent due to the impacts of climate change, the impact of floods and drought is significantly rising in many places. Therefore it

is increasingly important that in the development of projects both the present day conditions as well as the envisaged mid-term and longterm scenarios are taken into account in the decision-making process. In light of this, the European Water Framework Directive and the European Flood Directive are important guiding documents and need to be implemented jointly.

- For improved coordination of the wide range of activities for rural development at different spatial levels, like integrated land and water management, river basin management, rural development and spatial planning, it is recommended that legislation and organization structures, wherever relevant, should be updated.
- There is an urgent need to strengthen international water legislation for protection of the right of water for agriculture, in order to support sustainable and integrated water management - irrigation and/or drainage depending on the local conditions - as a prerequisite to guarantee the food security.
- Activities of the Interstate Commission for Water Coordination of the Central Asia (ICWC) in the framework of cooperation of the five states - Kazakhstan, Tajikistan, Uzbekistan, Turkmenistan, and Kirgizstan - may serve as an example for the trans boundary cooperation in other river basins.

- Further development of a network of Russian speaking water management specialists that was initiated in January 2009 is required. All the scientific organizations were encouraged to join the network.

Agreed Actions

- While acknowledging the need for significant increase in food production through sustainable rural development in the forthcoming decades and the potential of several of the European countries, like Ukraine, to contribute to this, it was agreed to launch an initiative for a joint project on 'Integrated Water Management for Improved Food Production in European Countries'. The ICID European Regional Working Group (ERWG) will take a lead to prepare a proposal in cooperation with the potential partners.
- The UACID and GECID jointly will take up the initiative of strengthening the network for European young professionals in the water management sector. They will also promote activities like research projects, exchange of professionals, summer schools, etc.
- The activities of the European Work Team on Sustainable Irrigation Management (EWTSIM) will be reviewed and further developed in light of the need for integrated approaches for rural development.



Delhi Declaration

60th International Executive Council (IEC) Meeting and
5th Asian Regional Conference (ARC)

6-11 December 2009, New Delhi, India

Preamble

The Indian National Committee on Irrigation and Drainage (INCID) hosted the 60th IEC and the 5th ARC on the theme "Improvement in efficiency of irrigation projects through technology upgradation and better operation and management". More than 700 professionals, experts, researchers, policy makers, managers, donors, development partners, and representatives from national, international organizations from 40 countries participated in the event.

ICID was privileged to have the Conference inaugurated by Hon'ble Prime Minister of India, Dr. Manmohan Singh, a feature that is indeed the first of its kind. This was highly acknowledged by the ICID President and entire ICID fraternity. It stood as an acknowledgement to the importance for the irrigation sector in its role to contribute to Global Food Security. Indian Prime Minister Dr. Manmohan Singh in his laudable speech highlighted the challenge of food demand, climate change, floods and drought requiring integrated approach into resource management to conserve water and ensure equitable distribution of resources, through citizen and State actions.

The full details of the event are covered in a separate section. A special souvenir released during the occasion brings out the messages from key persons including ICID President. The key outcome in the form of a Declaration is as beneath:

Delhi Declaration

- Realizing the growing population, industrialization and urbanization;
- Foreseeing the increased demand for precious water resources for various purposes particularly for agriculture;
- Recognizing the enormous challenges and complexities associated with the water sector;
- Considering the likely impact of Climate Change on agricultural land and water resources; and

In due consideration of the transactions and deliberations in various technical working groups, special sessions, and the Asian Regional Conference it was resolved that:

- There is an urgent need for implementing various strategies and measures to boost agricultural production utilizing the available water and land resources with the highest efficiency possible in context to the social, economic and ecological factors. Since secured food production comes mostly from irrigated agriculture, especially in semi-arid and arid countries, it calls for a considerable improvement in the overall performance of the irrigation and drainage sector
- About 70%, a major part of the world's irrigated area lies in the Asian region, as is its share of global population.

Agricultural Water Management in Asian countries plays a crucial role not only in coping with food demand but also in alleviation of poverty, especially in rural areas. National Governments need to invigorate their focus in modernization / improvement of publicly operated irrigation and / or drainage schemes creating a synergy between agricultural and water policies with a view to securing food.

- Recognizing the enormous challenges and complex issues facing the irrigation sector, increased investment both from public and private sources not only for expansion of irrigation area but also for modernizing existing infrastructure through the appropriate institutional arrangements are needed. Private sector is urged to come forward and discharge their social responsibility in water and food sector.
- Farmers, as the principal stakeholders, should be consulted. Women play a big role in food production. Participatory Irrigation Management (PIM) with well introduced reforms can enhance irrigation performance. National and regional governments and donor agencies are urged to support PIM, and encourage reforms by mobilizing financial and technical sources. There is a need to make Water User Associations (WUAs) economically sound and legally empowered.
- Enhanced support is needed for research and development, capacity building, improved extension services in the dissemination of technology/information/knowledge among all stakeholders, especially farmers. Promote best agricultural technologies and their dissemination to reach up to the level of the farmers.
- Taking into consideration the likely impacts of climate change on the availability of water resources and crop yields, national governments and related organizations are called upon to develop work plans for adoption/mitigation measures and encourage their implementation.
- An integrated approach of agricultural drainage by developing and adopting modern technologies and tools suited to local conditions for the reclamation of waterlogged and saline areas is required right from planning / implementation stage.
- The public private partnership in development and management of water resources for irrigation with the involvement of local stakeholders to ensure efficient management of the scarce water resources is to be given immediate attention.
- Encouraging an increase in investment in water resources sector, particularly in irrigation, from both private and public sources will create a proper envision for a thrust in action oriented programme.

Lviv Declaration

23rd European Regional Conference 'Progress in Managing Water for Food and Rural Development'

18-21 May 2009, Lviv, Ukraine

The 23rd European Regional Conference (ERC) of the International Commission on Irrigation and Drainage (ICID) was held during 18 - 21 May 2009 at Lviv, Ukraine. The theme of the ERC was 'Progress in Managing Water for Food and Rural Development'. The conference was organized by the Ukraine National Committee of ICID (UKCID) in cooperation with the ICID European Regional Working Group (ERWG). Professionals from Bulgaria, Germany, Hungary, Iran, the Netherlands, Poland, Romania, Russia, Spain, Ukraine, United Kingdom, Uzbekistan, and ICID participated in the conference and discussed the various keynotes and papers.

The Conference placed high emphasis on the issues related to flood control, water demands, GIS technologies and application in the field of water management. The special theme was dedicated to the climate change in view of frequent floods and droughts observed in Europe. Special attention was given to the development of management plans for river basins.

The 23rd European Regional Conference concluded with following Declaration/ Recommendation :

1. The conference papers highlighted the good 'on-going' development with respect to integrated management of water and land resources both with respect to policy related developments (stakeholder participation, actual implementation, modeling, data collection, storage) and their dissemination.
2. More and more projects were being developed and implemented in an integrated way by taking into account social conditions with stakeholder participation. Possible impacts of climate change including technical, economical, gender, and environmental aspects are getting addressed. However, more need to be done to improve these aspects. This will be especially important during the operation 23rd European Regional Conference, Lviv, Ukraine 'Progress in Managing Water for Food and Rural Development' 18-21 May 2009 'Lviv Declaration' and maintenance phase of rural development projects. It is in this phase that the benefits of projects are really realized.
3. Primarily due to human activities and to a certain extent due to the impacts of climate change, the effects and impacts of floods and droughts are significantly increasing in many places. Therefore, it is increasingly important that in the development of projects, both the present day conditions as well as the envisaged mid-term and long-term scenarios are taken into account in the decision-making process. In the light of this, the

European Water Framework Directive and the European Flood Directive are important guiding documents that have to be implemented jointly.

4. For improved coordination of the wide range of activities for rural development at different spatial levels, like integrated land and water management, river basin management, rural development and spatial planning, it is recommended to update legislation and organizational structures where relevant.
5. There is an urgent need to strengthen international water legislation for protection of water rights for agriculture in order to support sustainable and integrated water management - irrigation and/or drainage, dependent on the local conditions - as a requirement to guarantee food security.

The conference recorded its appreciation to the activities of the Inter-state Coordination Water Commission of Central Asia in the framework of cooperation of the five states - Kazakhstan, Tajikistan, Uzbekistan, Turkmenistan, and Kyrgyzstan - on transboundary waters under the conditions of climate change and felt that it could be an example for the trans-boundary cooperation in other river basins.

The conference also supported the development of a Russian speaking network of water management specialists that was initiated in the Moscow meeting of January 2009 and recommends that scientific organizations join the network.

Agreed actions

- To increase food production significantly, through sustainable rural development in the forthcoming decades by realizing the potential of several of the European countries, like Ukraine, it was agreed (by several parties) that an initiative will be taken for a joint project on 'Integrated Water Management' for improving food production in European countries. The ICID European Working Group will take the initiative to prepare a proposal in cooperation with the potential partners.
- To improve the network for European young professionals in the water management sector to be initiated jointly by UKCID and GECID. They will also promote joint activities like research projects, exchanges, summer schools, etc.
- To review and further develop the activities of Work Team on Sustainable Irrigation Management (WT-SIM) in light of integrated rural development.

Global Cooperation

World Water Council / World Water Forum 5 (WWC / WWF5)

During the year 2009-10, there were impressive ICID contributions to the World Water Forum 5 and WWC.

It would be recalled that ICID and World Water Council had a "Letter of Agreement" signed in 2007 to partner on issues concerning irrigated agriculture and water management. Many National Committees participated in generating inputs for the Forum held during the year in Istanbul, Turkey from 16-22 March 2009. The 5th World Water Forum concentrated on a theme "Bridging the Divides of Water" with topics and sub topics touching on different aspects like Climate Changes issues, Advancing Human Development and the Millennium Development Goals etc. A sub topic on "Water and Food for Ending Poverty and Hunger" under the Theme was handled by ICID for WWF 5. A consortium with the participation of 50 global organisations was constituted, facilitated and coordinated for

providing a common vision. A brief on ICID contributions to 5th WWF was widely publicized through ICID News Updates and Newsletter.

The 5th General Assembly (GA) of World Water Council was held from 14-16 October 2009 in Marseille, France. The GA held elections for the 35 seats of Board of Governors (BoG). ICID's effort to join BoG in the elections held in Marseille was not successful.

On 19 June 2009, the World Water Council selected Marseille, France as the city and country to host the 2012 World Water Forum. The Council's Governors also reviewed the strategic directions for the World Water Council. They expressed a clear need to deepen the dialogue on vital issues such as sanitation and the linkages between water, energy and agricultural production. They further indicated the need to mobilize the political will to realize the MDGs or to adapt to climate change and pro-actively prepare for disasters.

UN Convention to Combat Desertification (UNCCD)

The Committee on Science and Technology (CST) of the UNCCD has called for a Scientific Conference on "Understanding Desertification and Land Degradation Trends" to be held during 22-24 September 2009 at Buenos Aires, Argentina. In preparation

for the above Conference, UNCCD has requested a review of the first draft of scientific analysis papers contributing to the world's fight against desertification and land degradation. ICID National Committees / Committee were invited to participate and online consultations took place.

2nd annual McGill Conference on Global Food Security

The second annual McGill Conference on Global Food Security was held from 5-7 October 2009 at Montreal, Canada. President Chandra Madramootoo played a lead role to coordinate. The event drew leading experts from around the world to focus on questions related to the effect the economic crisis on food supplies and prices; and as to what could be done to alleviate nutrition problems in the developing world, although not uncommon even in the developed world in recent times.

The Conference addressed the impacts of the recent global financial crisis on food security especially in the regard to developing countries. Participants from more than 25 countries presented their unique perspectives on the current situation. International aid agencies reviewed ongoing food security problems and the effect of the economic crisis on their ability to respond both in the short and long term. There were over 400 participants including Ministers of Government, Ambassadors, Members of Parliament, policy makers, international scholars,



*Secretary General M. Gopalakrishnan,
President Chandra Madramootoo and PH Aly Shady*

development experts, representatives of international agencies and NGOs, private sector staff, academics and students. Secretary General M. Gopalakrishnan was invited to make a presentation on the "Indian scenario on Food Security". Several key ICID dignitaries also participated in the deliberations

including Pres Hon. Aly Shady and Vice President Hon. Professor Dr. Victor Dukhovny. Conference participants debated specific challenges around finance, investment and credit in agriculture, research and capacity building, markets and trade, appropriate

biofuel policies, and the future challenges in food production due to changes in climate. The conference brought out some crucial recommendations for long term policy planning and identified priority areas required to increase agricultural production.

Global Water Partnership

Vice President Hon. Mohamed Ait Kadi, President of the General Council of Agricultural Development in Morocco was invited

by GWP to take over as Technical Chair of the body. His new assignment helps bring ICID and GWP closer given his strong connections with both the organizations.

World Meteorological Organization

World Climate Conference-3 (WCC-3) was held from 31st August to 4 September 2009 in the United Nation Center in Geneva, Switzerland, under the aegis of the WMO. Dr. M. Vuillerat, President, CH-AGRAM (Swiss National Commission on Agro-Systems and Land Improvement) represented the ICID in the Conference.

WCC-3, which has brought together more than 2000 climate scientists, sectoral experts and decision-makers, established a Global Framework for Climate Services “to strengthen production, availability, delivery and application of science-based climate prediction and services” with five essential elements:

- The Global Climate Observing System and all its components, encouraging exchange and access to climate data,
- The World Climate Research Program, underpinned by adequate computing resources and increased interaction with other global climate research initiatives,
- Climate services information systems taking advantage of existing national and international arrangements,
- Climate user interface mechanisms focused on building linkages and integrating information between the providers and users of climate services, and
- Efficient and enduring capacity building through education, training and strengthened outreach and communication.

WMO has invited ICID to their following meetings:

- ❖ 61st Session of the Executive Council of WMO, Geneva, Switzerland, 12 June 2009,.
- ❖ 15th Session of Regional Association VI (Europe) of WMO, Brussels, Belgium, 18-24 September 2009,
- ❖ 3rd Session of the Joint WMO-IOC Technical Committee for Oceanography and Marine Meteorology (JCOMM-III), Marrakech, Morocco, 4-11 November 2009,
- ❖ 15th Session of the Commission for Atmospheric Sciences (CAS) of WMO, Incheon, Korea, 18-25 November 2009, and
- ❖ Intergovernmental Meeting for the High-Level Task Force (HLT) on the Global Framework for Climate Services (GFCS), Geneva, Switzerland, 11-12 January 2010.

ICID's representation was organized through the concerned National Committees in the region / country to represent ICID. ICID also stood behind WMO's efforts during the 5th World Water Forum in a session coordinated by them on Theme 1 on 'Global Changes and Risk management' besides Theme 6 on Data Exchange or "Knowledge for All, All for Knowledge".

The 60th IEC and 5th ARC organised by hosts Indian National Committee (INCID) could derive WMO's limited support to sponsor a few delegates from Mekong Basin countries to join a special session organised to discuss Mekong River basin issues, in New Delhi in December 2009.

Asian Development Bank

ICID has been invited by Asian Development Bank (ADB) to join a Conference on “*Water Crisis and Choices*” to be held in Manila between 12-14 October 2010. The focus will be the water-food-energy nexus, questions of efficiency gains, and managing

demand for water in light of climate change.

The Conference will cover the principal water concerns in Asia. ICID intends to contribute for the Session on “**Technologies in Irrigated Agriculture, Costs and Benefits**” under Theme 2 on “*Water in Food: Productivity Gains*”.

International Fund for Agricultural Development (IFAD)

ICID has a Permanent Observer status at the Executive Board of Governing Council of IFAD. We had been co-opted by a MoU with IFAD given our roles of rural poverty alleviation and livelihood with agricultural water management. ICID was invited to participate in their 33rd Session of the Governing Council held on 17-18 February 2010 in Rome, Italy. Vice President, ICID, Prof. Lucio Ubertini represented ICID at the IFAD Governing

Council. A major highlight of this year's meeting was a plenary panel discussion on 'From summit resolutions to farmers' fields: climate change, food security and smallholder agriculture'. Also three side events focusing on natural resource management, climate change and the role of smallholder agriculture and family farming were held. Prof. Ubertini attended the side event "The role of smallholder agriculture and family farming in Asia and Latin America and options for South-South cooperation".

UN-Water

As a UN-Water Partner, ICID was invited to participate in the shaping of the World Water Development Report (WWDR-4). ICID reaffirmed its commitment to contribute effectively for WWDR4. The outcome of the WWDR4 Issues Workshop held from 16-17 November 2009 in Colombella, Perugia had spelt out clearly the identified challenge areas and possible contributing agencies. ICID has been identified for collaborating / contributing in the following challenge areas:

Sl. No.	Challenge Areas	Lead Agency
1	State of the resource	UNESCO
2	Food and agriculture	FAO - IFAD
3	Allocating water	UNESCO - Unesco - IHE
4	Valuing Water	UNDESA
5	Investing in infrastructure, its maintenance and operation	World Bank and others
6	Impacts of desertification, land degradation and drought on water resources	UNCCD

Conference of Parties (COP) 15

UN-Water has invited ICID in the preparatory process leading up to COP15 in Copenhagen in December. On 3 November, in collaboration with the Global Public Policy Network (GPPN), UN-Water organized a "Water-Day" in Barcelona in conjunction with the last COP 15 preparatory meeting. For this "Water-Day"

UN-Water, through the excellent coordination of the UN-Water Task Force on Water and Climate Change, elaborated a 1-page message documents to be available for COP15, addressing Water and Climate Change. Secretary General has given its comments in the preparatory process.

UN-Water Task Force on Multiple Uses of Water

An invitation was received from FAO in contributing to the development of 'Multiple Uses of Water' at different level, including in the management of large irrigation systems such as those found in South Asia, and especially in India where the FAO have a significant program on modernization. Building on the success of the last Forum, FAO would like to further the topic at UN level. Following the successes the MUS concept mobilised at the 5th World Water Forum, through topic discussion as well as through the ministerial political process, FAO would like to propose a UN-Water Task Force on this important topic in order to strengthen collaboration among key UN agencies and non-UN partners involve in water management and water

services provision. FAO feel that UN-Water and its members and partners represent all the different sectors that have a stake in MUS and thus UN-Water could play a proactive role on the topic and convey the message of MUS as a multi-sectoral approach at global and country level.

ICID accepted the invitation and indicated the Focus Area 3 "Communication and Advocacy". The main objective of associating with the TF was the following:

- (1) Promote effective communication and collaboration between the UN system and civil society and private sector partners, and
- (2) Facilitate and support work being carried out at the regional and sub-regional levels, both within the UN system and with partners.

Food and Agriculture Organization

ICID is represented at various meetings and sessions of FAO of the United Nations from time to time. Prof. Dr. Maria Elisa Venezian Scarascia, Secretary General, ITAL-ICID is ICID's permanent representative for FAO meetings held in Rome.

When FAO meetings are held away from Rome, the concerned ICID NCs are requested by Secretary General to send their representative so as to have ICID representation / participation. During the reporting period i.e. from 1 April 2009 to 31 March 2010, FAO had invited ICID to the following meetings:

Evaluation of FAO's work in Water

The purpose of the Evaluation is to provide FAO's Member Countries and Secretariat with evidence and lessons on past performance as a basis for recommendations on the future role and scope of the Organization's water-related work. The evaluation will hence provide accountability to FAO Member Countries and Secretariat about the Organization's performance and comparative advantage in this area. The evaluation covered the last five years (2004-09), and was conducted by a multi-disciplinary, external team of consultants with managerial support provided by the FAO Evaluation Service.



President Madramootoo at the Expert Consultation meeting

- ❖ 136th Session of the FAO Council, Rome, Italy, 15-19 June 2009,
- ❖ 137th Session of the FAO Council, Rome, Italy, 28 September – 2 October 2009,
- ❖ 36th Session of the FAO Conference, Rome, Italy, 18-23 November 2009, and
- ❖ 35th Session of the Committee on World Food Security, Rome, Italy, 14-15 and 17 October 2009.

President Chandra Madramootoo was invited to participate in the 'Expert Consultation' meeting on "Coping with water scarcity – The role of agriculture" organized at the FAO headquarters, Rome, during 14-16 December 2009. The purpose of the Expert Consultation was to assist FAO to better design its water scarcity programme. VPH Mark Svendsen, made presentation on 'US experiences in coping with water scarcity'. During the meeting experts reviewed the draft document on the subject and provided recommendations on the range of technical and policy options and associated principles which FAO should promote as part of an agriculture response to water scarcity in member countries.

Commemorating the 60th Foundation Day, an event was organised in New Delhi in which Dr. Gavin Lindsay Wall, FAO Representative to India and Bhutan participated as the Chief Guest and delivered a talk. This talk not only covered the importance of meeting the food requirements for the future increased population, but also nutritional requirements, both of which call for contributions from global organizations like ICID.



Mr. V.B. Patel, Dr. Gavin Lindsay Wall, SG M. Gopalakrishnan, and VP A.K. Bajaj

World Water Assessment Programme

The triennial World Water Development Report (WWDR) is the United Nations System flagship report on water, a comprehensive review of the state of the world's freshwater resources. So far three edition of the World Water Development Report has been brought out. The last one was in Istanbul during the 5th World Water Forum in March 2009 with the titled "Water in a Changing World". It is the result of collaboration and effort among the 26 members of UN-Water, country partners, non-governmental organizations, a technical advisory committee, expert groups and hundreds of contributions from stakeholders through global public consultations.

Secretary General, Gopalakrishnan played a role on behalf of ICID during the preparation of the 3rd WWDR utilising his status of a member of the Technical Advisory Committee constituted by the WWAP Secretariat under UNESCO.

For the 1st Consultation meeting held in Rome on 24-25 June 2009 and for the subsequent meetings and virtual meetings / surveys for the production of the 4th edition of the WWDR, Secretary General was invited to provide comments / suggestions. These were provided utilising ICID Knowledge Base material.

UN-Water Decade Programme on Capacity Development (UNW-DPC)

A MoU was signed between ICID and UN-Water Decade Programme on Capacity Development (UNW-DPC) in the field of Capacity Development for Water in Agriculture.



MoU between ICID and UNW-DPC: Key highlights

"Under the terms of the MoU it is agreed that ICID and UNW-DPC will seek to cooperate in the field of Capacity Development for Water in Agriculture.

ICID will support UNW-DPC by providing access to its international network of professionals in the field of water and agriculture and its capacity development experts; providing information and access to the activities of the ICID Working Groups dealing with matters like Capacity Building, Training and Education; bringing coherence to and coordinating with UNW-DPC, through its Working Groups handling Capacity Building and similar tasks, its future plans and needs in terms of capacity development.

UNW-DPC will support ICID and/or members by providing a platform within its online information system on capacity development activities (CDIS) for disseminating knowledge and materials about the issue of water efficiency in agriculture

and related capacity development activities and other relevant ICID activities.

ICID and UNW-DPC will commit to work in close cooperation with each other in establishing a Working Group of experts, including ICID Working Groups dealing with the subject matter relating to Capacity building and training; UNW-DPC and other relevant UN-Water members and partners; Develop and disseminate a needs assessment questionnaire among the selected ICID member countries and UN-Water partners. UNW-DPC and ICID will develop frameworks of cooperation for each joint activity, specifying specific responsibilities and funding issues concerning the particular activity."

The MoU was signed in March/ April 2010 by Prof. Dr. Chandra Madramootoo, President ICID; and Dr. Reza Ardakanian, Director, UNW-DPC.

As a follow up of the MoU, UNW-DPC and ICID jointly developed the Framework of Cooperation between FAO / UNW-DPC/ ICID for a side event at the 6th Asian Regional Conference scheduled to be held from 10-16 October 2010 in Yogyakarta, Indonesia. FAO's model "AquaCrop" shall be the focus. Case studies will be presented in a nutshell but with sufficient detail. These proceedings will greatly help current and future AquaCrop users to run the model and to improve the crop water productivity in their environment.

UNDP: 'Waterwiki.net'

The UNDP led Waterwiki.net was initiated some four years ago geographically covering essentially the ECE region and focusing primarily, although not exclusively, on water governance issues. While UNDP is facilitating development and maintenance of waterwiki.net, several other members of UN-Water are already actively supporting the venue. ICID is also a member of UN-Water.

The wiki concept allows registered users to input both their own information and to edit existing information with the potential of

involving more members of the water community and of vastly increasing the body of knowledge available to all users of the internet. The comparative advantages of websites and wikis in general are analyzed. The particular comparison of the UN-Water website with waterwiki.net demonstrates that they are not in competition with each other, but, by contrast, are naturally complementary. A variety of other websites and wikis are shown also to be potentially complementary to waterwiki.net. Options for consideration of UN-Water are made and recommendations on how best to take up this opportunity are given.

International Water Management Institute (IWMI)

ICID extended an invitation to IWMI to organise a Special Session (IWMI-FAO-ICID) on "Future of Irrigation in Asia" on the sidelines of the 60th IEC/ 5th Asian Regional Conference held at New Delhi in December 2009. This session provided an opportunity for the representatives from various countries on the prospects and threats that Asian irrigated agriculture faces and future directions.

ICID received an invitation for the International Workshop on "Tackling Water and Food Crisis in South Asia: Insights from the Indus-Gangetic Basin" (Challenge Program on Water and Food {CPWF} Basin Focal Project for the Indus-Gangetic Basin) held at New Delhi from 2-3 December 2009 with IWMI playing the lead with a host of global and national partners from the

four basin countries. Indus-Gangetic basin is one of the most populous in the world and given the diversity of agro-climatic, social and economic conditions in the four riparian countries – Pakistan, India, Nepal and Bangladesh. It is clearly one of the most complex river basin systems in the world. Management of IGB water resources presents some formidable challenges and, therefore, the project was initiated to identify steps to be taken towards integrated management of the IGB's water and land resources in order to ensure the future sustainability of all production and ecosystem in the basin. The project was launched in April 2008 with the objective of conducting basin-wide analysis of the conditions, constraints and opportunities for improving agricultural water productivity and alleviating poverty through high potential interventions. Secretary General Gopalakrishnan participated to represent ICID in the workshop.

The World Bank

The association in ICID activities by the World Bank continued to gain strength. World Bank extended a limited support to enable participation of representatives from countries who have financial difficulties in ICID annual meetings. World Bank support for the 60th IEC could enable a Special Session on Aral Sea Basin in which participants from Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, Ukraine attended the event.

Secretary General had an invitation to participate in an international workshop on the subject convened by World Bank as a part of their efforts to encourage sustainable water management in Himalayan River systems and also take on board the Climate Change issues. This Workshop held in 2009 June attempted to address four critical issues in relation

to sediment management in water resources projects. These were (i) sediment data management, (ii) sustainable reservoir operations, (iii) run of the river hydro electric projects and (iv) sediment data management. Bangladesh, Bhutan, China, India, Nepal, Pakistan and Sri Lanka were able to present some of the individual country experiences, research findings and aspects of tackling the problems. Organized under South Asia initiative, the objective of the workshop was "promote the goals of poverty reduction, economic development, mitigation and adaptation to climate change, and water security through significant and measurable improvements in water resources management and development at the regional, international basin and national levels in South Asia". The events planned enhance cooperation among the countries of the region.



World Water Day 2010

The World Water Day (WWD) is being celebrated across the globe on 22 March every year commencing from 1994. The day is dedicated to enhance the reach of the 'Voice of Water' and create awareness and understanding on one of humanity's most vital resources. ICID joins other international agencies in their efforts to celebrate World Water Day by encouraging its National Committees to organize activities to mark the event.

Every year, 1,500 cubic kilometers of wastewater are produced globally. While waste and wastewater can be reused productively for energy and irrigation, it usually is not done. In developing countries 80% of all waste is being discharged untreated, because of the lack of regulations and resources. Population and industrial growth add new sources of pollution and increased demand for clean water to the equation. Human and environmental health, drinking and agricultural water supplies for the present and future are at stake. Still, water pollution as a pressing issue is yet to get the desired attention.

The theme of World Water Day 2010 **"Clean Water for a Healthy World"**, emphasizes that both the quality and the quantity of water resources are at risk. The following is the summary of the WWD 2010 celebration reports as received from some National Committees of ICID.

BANCID, Bangladesh

The Bangladesh National Committee (BANCID) on the occasion of World Water Day on 22 March 2010, and JAAGO Foundation in partnership with Coca-Cola Far East Limited organized a day-long awareness generation event in Dhaka.

The theme of the event was "Clean water for a healthy world". Doctors, students, local community members and volunteers participated in the event to create awareness about safe drinking water and sanitation.

INCID, India

World Water Day – 2010 was organized by the Ministry of Water Resources, Govt of India on 22nd March 2010 at New Delhi. On this occasion 'National Ground Water Congress' was also organized. The event was graced by Mr. Pawan Kumar Bansal, Hon'ble Union Minister of Water Resources, Prof. M.S. Swaminathan, Hon'ble Member of Parliament and renowned Agricultural Scientist, Mr. Umesh Narayan Panjiar, Secretary Ministry of Water Resources, Mr. A.K. Bajaj, Chairman Central Water Commission and INCID, and

Mr. B.M.Jha, Chairman Central Ground Water Board. The event was attended by many scientists, engineers, planners, and policy makers. Technical papers on groundwater related issues were presented. Mr. A.K.Bajaj chaired the technical session. Mr. Pawan Kumar Bansal, Union Minister of Water Resources dedicated a web enabled 'Groundwater Information System of India' to the country. National Water Award and Groundwater Augmentation Awards were also conferred to NGOs and Gram Panchayat's (village committees) working in the field of water conservation and artificial recharge.



Prof. M.S. Swaminathan



VP A.K. Bajaj with the Secretary, Ministry of Water Resources, and Senior Officers of the MoWR

ITAL-ICID, Italy

The World Water Day was celebrated on 22 March 2010 jointly with the National Academy of Lincei. A workshop was held at the Academy headquarters “Villa Farnesina” with the theme

“Soil degradation” involving many distinguished speakers from some Italian Universities. There were interesting discussions/ debate on landslide and erosion processes, subsequently.

UACID, Ukraine

A national seminar devoted to the World Water Day was held on 22 March 2010. More than 60 experts and professionals in the sphere of water management from all over Ukraine took part in the seminar. Some public meetings and conferences were also held in all regions of Ukraine. This year's theme was “Pure water for the healthy world”. As an out come of the seminar, a declaration was brought out.



VP Peter Kovalenko at the National Seminar



International Participation

3rd International Forum on Water Resources and Sustainable Development, China

The 3rd International Forum on Water Resources and Sustainable Development was held at Wuhan, China on 22-24 September 2009. The chief objective of the forum was to improve understanding of the complex and dynamic relationship between water resources and sustainable social development, and exchange experiences on water resources management, development and protection.

The Forum was jointly sponsored by Chinese Academy of Engineering, and Ministry of Water Resources, and organised by Wuhan University. The Forum was inaugurated by Mr. Chen Lei, Minister of Water Resources, and People's Republic of

China. The Forum was attended by more than 300 international and Chinese academicians, experts and professionals. Experts from international organizations such as ICID, IAHR, and IWRS, IWMI, TWCWM Mexico and Universities from Australia, Russia and USA delivered key speeches. VPH Dr. Gao Zhanyi, Prof. Jiesheng Huang, Ms. Wang Shaoli of the CNCID actively participated in the event.

Secretary General, ICID was invited to address at the Opening Ceremony wherein he underlined ICID's role in water resources development and management in achieving food security and environmental sustainability. Dr. S.A. Kulkarni, Executive Secretary, ICID made a presentation on "Challenges and Threats in Participatory Irrigation Management" in one of the Forum Sessions.

Southern African Regional Irrigation Association (SARIA)

The Southern African Regional Irrigation Association (SARIA) was launched during the ICID's 51st International Executive Council (IEC) meeting held in Cape Town, South Africa. SARIA was established as a developmental, professional, educational and voluntary regional organization, dedicated to enhance the South African Development Community (SADC)'s regional food security by improving water and land management. SARIA country members include: South Africa, Botswana, Swaziland, Lesotho, Namibia, Malawi, Zambia, Zimbabwe, Tanzania, Madagascar, Mauritius, Mozambique, and the Democratic Republic of Congo. The Mission of SARIA is to enhance research, training and development of appropriate science and technology in irrigation and drainage for gender-balanced poverty eradication and economic development to improve the livelihoods of the inhabitants of the SADC region of Africa.

SARIA held a symposium and steering committee meeting from 16 – 18 February 2010 in Bloemfontein. The theme of the symposium was "Best Management Practices and for Sustainable Smallholder Irrigation development and other aspects of Small-scale Irrigated Agriculture". The purpose of the

symposium was to promote the exchange of ideas and practices between researchers, advisory agents and government officials from the SADC countries with regard to smallholder irrigation. Participants included SARIA representatives from 10 SADC countries. Each country representative presented a paper on certain aspects of smallholder irrigation. In addition, discussions on rainwater water harvesting and conservation (RWH & C) practices continued from the previous RWH & C workshop held in February 2009. A tour of the Lesotho Highlands Water Project (Mohale dam) was organized.



Participants of the SARIA Symposium

Agricultural Water for Africa (AgWA)

AgWA is a partnership of African and international organizations with a common interest to support re-engagement in Agricultural Water Management (AWM) in Africa. It aims to (i) scale up investments and ensure a more reliable, broad based and sustained flow of funds for agricultural water; (ii) promote analytical work and support sectoral strategies in the field of

agricultural water; (iii) promote knowledge sharing, dissemination and capacity strengthening, (iv) initiate innovative business lines in support to scaling up investments in agricultural water; and (v) promote regional integration, coordination and partnerships, and empowerment of national and regional stakeholders.

AgWA partners' meeting was held on 23-24 March 2010 at Tunis, Tunisia. The objectives of the meeting were to forge strong

¹ "Comprehensive African Agricultural Development Plan" (CAADP) is an evolving document by a consultation process, involving all national and regional stakeholders.

connections with the operationalization of CAADP¹ Pillar I, and to contribute to the finalization of the AgWA workplan 2010-2011. President Hon. Peter Lee (UK) and Dr. Adama Sangare, Secretary General, Mali National Committee (AMID) participated and represented ICID in the meeting. Pres. Hon. Lee highlighted ICID activities of relevance to AgWA work plan like network and advocacy (3rd AFRC in Mali, 2011, ICID's collaboration regionally with SARIA and ARID), Special Work Team on Lake Chad Basin, TF on LDC in Africa etc. The partnership between AgWA and ICID will help the National Committees and Regional Organizations in Africa to gain on "Agricultural Water Management Issues".

The meeting was hosted by the African Development Bank and was co-chaired by Mr. Mbogo Futakamba, Ministry of Water and Irrigation and Secretary General of the Tanzanian National Committee (TANCID), and Mr. Salah Darghouth, World Bank Consultant.



Dr. Adama Sangare, President, Mali National Committee speaking at the meeting

Indian Institute of Technology (IIT), Delhi, India

The Department of Science and Technology, Govt. of India and the German Federal Ministry of Education and Research (BMBF) launched bilateral events, held under the title "Sustainable Solutions – Science and Sustainability", to establish the foundations for long-term, strategic partnerships in sustainability research. In this context, IIT-Delhi hosted a Indo-German Conference on "Water and Waste Management" jointly with

NEERI, Nagpur, India; BMBF, Germany and the United Nations University, Germany on 3-4 February 2010 at Delhi. About 40 senior scientists from Germany participated in the event. ICID Secretary General, as an invitee, participated and delivered an expert talk on "Irrigation Water Efficiencies" in the Conference and highlighted ICID's initiative in Water Savings through WatSave Awards. He also brought out a few example cases so far acknowledged.

International Hydropower Association (IHA)

President Chandra Madramootoo was invited by the President of Iceland in connection with the World Congress on Advancing Sustainable Hydropower held in Reykjavik from 23-26 June 2009 organised by IHA. On behalf of ICID, PH Lee joined the Consultative Council meeting in Iceland. The recommendations made cover five work areas: (i) sustainability, (ii) climate change, (iii) energy, (iv) water and (v) markets / investment. These recommendations were subsequently presented to IHA's Board and discussed at its 50th and 51st meetings in London, UK and Chamberry, France. In these meetings the Board established the Association's work program up to October 2011 and also determined changes in its administration, communications and policy activities to ensure satisfactory delivery in the five work areas. IHA has again invited ICID to their next Consultative Council which will take place at Iguassu Falls, Brazil on 14 June 2011, followed by the 2011 IHA Congress.

was supported by the Ministry of Public Utilities, Sarawak Hidro and Tenaga Nasional Berhad. More than 600 Malaysian and international delegates representing 46 nations have converged for the event organised by the UK publishing company Aqua—Media International Ltd., a publisher of the bi-monthly Journal. About 100 papers were presented during the exhibition.

ICID was invited to join as partners of the event and in response, Secretary General Gopalakrishnan attended the conference and delivered a speech during the inaugural function. Apart from ICID, the inaugural session had other senior functionaries from various organisations like UN ESCAP, ICOLD, Sarawak Energy besides Hydropower & Dams who spoke on their contributions to the sector. Secretary General chaired a session on "Water Resources Development". The role of storage and its importance with the challenges posed by climate change was highlighted, especially to meet the growing food demands.

International Journal of Hydropower & Dams

Following two previous successful events organized earlier in Bangkok, Thailand (2006) and Danang, Vietnam (2008), International Journal of Hydropower & Dams organised their 3rd International Conference and Exhibition on "Water Resources and Renewable Energy Development in Asia" (ASIA 2010) at Kuching, Sarawak, Malaysia between 29-30 March 2010. The Conference was hosted in partnership with Sarawak Energy and



Secretary General M. Gopalakrishnan speaking at ASIA 2010

India Water Partnership

India Water Partnership (IWP) is a part of the network of Global Water Partnership (GWP). IWP has prepared its strategy for 2009-13, consistent with the overall strategy of GWP and GWP-SAS TEC. Board of Governors of IWP in its meeting held on

27 June 2009 approved the constitution of a Search Committee for the recommendation of a candidate to the post of President of IWP. One of the members of the Search Committee was Secretary General, M. Gopalakrishnan.

ICRISAT

Prof. Dr. Chandra Madramootoo, President, ICID is on the Governing Board (GB) of International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) located at Hyderabad, India. The 21st meeting of the ICRISAT's GB was held in September 2009 at Bamako in Mali, where President contributed to issues

discussed in their Program Executive and Audit Committees. Mali is an active member of ICID since 2005 and has offered to host the ICID's 3rd African Regional Conference in 2011. President Madramootoo also held discussions with the Office Bearers of Mali National Committee (AMID).

World Climate Conference-3

World Climate Conference-3 (WCC-3) was held from 31st August to 4th September 2009 in the United Nation Center in Geneva, Switzerland, under the aegis of the World Meteorological Organization. The Swiss national commission on agro-systems and land improvement (CH-AGRAM) represented ICID in the Conference. WCC-3, which has brought together more than 2000 climate scientists, sectoral experts and decision-makers, established a Global Framework for Climate Services "to strengthen production, availability, delivery and application of science-based climate prediction and services".

It was brought to the attention that sea-level rise only due to thermal expansion is inevitable and will threaten millions of people in coastal areas and mega-deltas. In order to achieve the 2 degree Celsius target, it is important that the global greenhouse gas emissions peak by 2015 and then sharply decline. Even if reduced emissions are reduced to zero today, it was brought out that the global community has still to address the need for adaptation measures, particularly in the most vulnerable regions of the world.



Publications

Creation of a dynamic knowledge base and its dissemination among the professionals across the world remained the core ICID mission objective. This is achieved through various publications like Proceedings of congresses, Special publications, Position Papers, Synthesis Reports, besides ICID Journal, Newsletter (now ICID News), News Update and ICID website www.icid.org. The Regional Working Groups and the National Committees too contribute richly to this exercise of knowledge dispersal. Brief information of the key publications brought out during the period 2009-10 is given below:

MULTILINGUAL TECHNICAL DICTIONARY (MTD)

The first CD-Rom version of the Dictionary was published in the year 2000. With updated software and more option facilities, the 4th edition of the MTD (English-French) was brought out on CD-Rom in the year 2002. The 5th revised edition of the MTD, incorporating three additional languages, viz., Chinese, Japanese and Russian, besides English and French was brought out in January 2010.

Publisher: ICID Central Office; January 2010; ISBN: 81-89610-16-3; Price: Members and Booksellers: US\$ 30; Non-members: US\$ 60



ICID@60

To mark the Diamond Jubilee Year (1950-2009) of the ICID, a CD ROM called 'ICID @ 60' was released on the eve of its 60th annual International Executive Council (IEC) meeting held at New Delhi in December 2009. The CD contains comprehensive historical details about ICID since its establishment in 1950 to 2009. It is a very useful source of reference for persons/organizations interested in knowing about ICID and its key activities.

Publisher: ICID Central Office; December 2010; Price: US\$ 10 (Handling charges)



POST CONGRESS PROCEEDINGS OF 20TH ICID CONGRESS, LAHORE, PAKISTAN

The 20th International Congress on Irrigation and Drainage on the theme 'Participatory Integrated Water Resources Management – From Concepts to Actions' was held during 13-18 October 2008 at Lahore, Pakistan. Following the Congress, a CD-ROM containing speeches delivered during the opening and closing ceremonies and proceedings of technical sessions etc. was brought out.

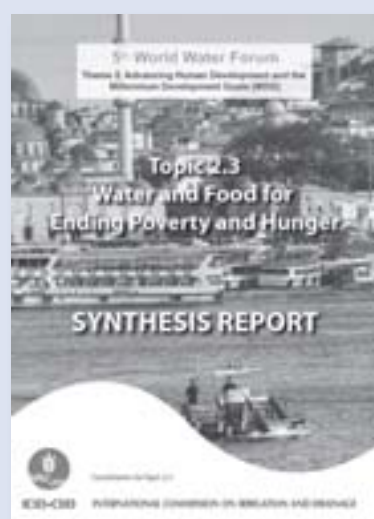
Publisher: ICID Central Office; October, 2009; ISBN: 81-89610-15-5; Price: Non-Members; US\$ 10 (Handling charges)



SYNTHESIS REPORT: TOPIC 2.3 – WATER AND FOOD FOR ENDING POVERTY AND HUNGER, 5TH WORLD WATER FORUM

This synthesis paper contains the information about Topic 2.3 'Water and Food for Ending Poverty and Hunger' coordinated by ICID at the 5th World Water Forum held at Istanbul in March 2009. It includes the key issues of Theme 2: 'Advancing Human Development and the Millennium Development Goals (MDG)', the key questions of Topic 2.3, and overall conclusions and recommendations on the topic. The accompanying CD-ROM contains the full synthesis report with detailed information on the sessions, presentations and the consortium.

Publisher: ICID; December 2009; Paper bound; pp 40 and CD-ROM. Price: US\$ 10 (Handling charges)



Publications Received from National Committees

Books/Proceedings

- 'Abstracts of the Papers', 60th International Executive Council Meeting and 5th Asian Regional Conference on Improvement in Efficiency of Irrigation Projects through Technology Upgradation and better Operation and Maintenance, 6-11 December 2009, New Delhi, India', Indian National Committee on Irrigation and Drainage (INCID)/Central Water Commission (CWC), pp 449 + CD-ROM.
- 'Theme Papers', 60th International Executive Council Meeting and 5th Asian Regional Conference on Improvement in Efficiency of Irrigation Projects through Technology Upgradation and better Operation and Maintenance, 6-11 December 2009, New Delhi, India', INCID/CWC, pp 108
- 'Souvenir', 60th International Executive Council Meeting and 5th Asian Regional Conference on Improvement in Efficiency of Irrigation Projects through Technology Upgradation and better Operation and Maintenance, 6-11 December 2009, New Delhi, India', INCID/CWC, pp 186
- 'Water Resources Map of India', INCID/CBIP, New Delhi, 2009.
- 'Water Resources Development in India', INCID/CBIP, New Delhi, 2009, pp 173.
- 'History of Irrigation Development in Orissa', INCID, New Delhi, November 2009, pp 300
- 'Multilingual Technical Dictionary on Irrigation and Drainage (English-Indonesian)', First Edition, 2009, Indonesian National Committee on Irrigation and Drainage (INACID), Indonesia.
- 'Abstract of papers of 23rd European Regional Conference on the theme Progress in Managing Water for Food and Rural Development', CD-ROM, Ukrainian National Committee on Irrigation and Drainage (UKCID), 17-24 May 2009, Leviv.
- Iranian National Committee on Irrigation and Drainage (IRNCID) has translated the following FAO, ICID and IWMI publications in Persian language during the period 2009-10:
- Ehsani, M., Khaledi, H., and Barghi, Y., 'Introduction to Virtual Water',
- Nasser, A., 'The Watsave Scenario',
- Vaziri, J., et al., 'Crop Evapotranspiration: Guidelines for Computing Crop Water Requirements', and
- Heydarian, S.A., Ehsani, M., and Youseffard, E., 'Irrigation Management Transfer: Worldwide Efforts and Results'.

Newsletters received

- KCID Newsletter, Korean National Committee on Irrigation and Drainage, 2009, Vol. 41, No. 4
- ERWG Letter, European Regional Working Group (ERWG) of the ICID, May 2009, No. 19
- USCID Newsletter, the U.S. Committee for Irrigation and Drainage, No. 101, 2009

ICID Periodicals

The ICID Journal – Irrigation and Drainage

The ICID Journal 'Irrigation and Drainage', a peer reviewed technical journal carrying select articles is a flagship publication of ICID. It is published through M/s. Wiley-Blackwell (UK) and its management is governed by an International Editorial Board (EB). The Chairman of the EB is Pres. Hon. Prof. dr. Bart Schultz (The Netherlands). The EB is composed of Joint and Associate Editors and Members from around the world.

The Journal is published in five issues per year of about 128 pages

each. Some Special Issues are also brought out to focus on the current issues of significance. During 2009 over 267 papers have been received. In all, 219 authors from 28 countries had contributed their papers. For each regular issue, Central Office had submitted two page brief on current topics of ICID interest.

The following four special issues were published in 2009-2010:

- Water for Food and Poverty Alleviation, Feb 2009, Vol.58, Supplement 1
- The Water Professional of Tomorrow, April 2009, Vol. 58, Supplement 2,



(iii) Irrigation Management in North Africa, July 2009, Vol. 58, Supplement 3, and

(iv) Selected Papers from the 20th ICID Congress, Lahore, Pakistan, February 2010, Vol. 59, No. 1

The Journal is widely distributed among

and workbody members. Additional copies of the Journal are available at subsidized rates to ICID members. The Journal was priced at US\$557 for print only and US\$ 613 for online + print (5 issues) for institutional members and US\$ 419 for individual members.

All issues of 'Irrigation and Drainage' published since 2001 are available through Wiley InterScience (<http://www.interscience.wiley.com/journal/ird>). Access to abstracts is freely available to all guest users, with viewing of full text papers. Early View papers limited to paid subscribers only is also available. The Journal can be subscribed either by contacting Marketing Manager, M/s. Wiley Blackwell < geostwood@wiley.com > or through online.

ICID membership. Each National Committee gets 10 free copies of the Journal besides free online access for all Office Bearers

Annual Report 2008-09

The annual report covering the period April 2008 to March 2009 was brought out by the Central Office in September 2009. The printed version of the report was sent to all the National Committees/ Committee, and Office Bearers. The report was also posted on ICID website.



Newsletter

The Newsletter is a colorful 8 page bulletin of ICID, published quarterly. It publishes brief invited technical articles of current interests from eminent professionals, outcomes/report of the key ICID events, and a commercial advert. President ICID provides message to the Newsletter. Articles published in the Newsletters are cited by many international and professionals in their technical documents. During the period April 2009 to March 2010, 4 issues of the Newsletter (2009/2, 2009/3, 2009/4, 2010/1) were published.

(Commencing from 2010/1 issue, the ICID Newsletter is renamed as ICID News.)

News Update

The News Update is a four page monthly bulletin of ICID and covers current news from National Committees, visits of Office Bearers, important announcements about ICID and other related events, ICID Journal alerts, updates on Text Delivery Service (TDS), vacancy announcements, besides a message from the Secretary General in each issue. Issues published during the period April 2009 to December 2009 were brought out in hard copies; since January 2010 the New Update is being published only in soft version. These are posted on ICID website on 15th of every month.

Soft versions (pdf) of both News Update and ICID News are electronically circulated among thousands of professionals across the world. All those institutions and individuals interested in getting them can subscribe through the homepage of the ICID website.



Central Office

ICID secretariat, called as Central Office (CO) is housed in its own building located at 48, Nyaya Marg, Chanakyapuri, New Delhi, India. The Central Office is a hub for the communication and knowledge dissemination and networking amongst its stakeholders. It provides essential support services to ICID member countries/national committees, workbodies, office bearers, liaise with UN Water and other water related sister organizations.



ICID Central Office



Location Map

Staff

The CO staff comprises professionals and support staff who works under the overall supervision of the Secretary General, ICID. The professionals are - Er. K.N. Sharma, Secretary; Dr. S.A. Kulkarni, Executive Secretary; and Dr. V.K. Labhsetwar, Director. The supporting staff assists in various activities including administration, finance, web services, library, Text

Delivery Service (TDS), and operation and maintenance of the Central Office and its premises. During the year 2009-10, 10 positions were kept vacant to effect economy. The work allocation amongst the professionals during the reporting period of 1 April 2009 to 31 March 2010 was as follows:

Work allocation among Central Office professionals



Secretary
K.N. Sharma



Executive Secretary
S.A. Kulkarni



Director
V.K. Labhsetwar

- ❖ Management Board
- ❖ Staff Committee
- ❖ Office Bearers Committee
- ❖ Administration (part)
- ❖ Accounts
- ❖ ICID Website
- ❖ UNESCO/IWALC
- ❖ FAO/ECOSOC/UN/CSD
- ❖ BPNCA / BPWA
- ❖ WWC / WWF 5
- ❖ SC-IPTRID
- ❖ ISO-113
- ❖ Strategy Themes

- ❖ Newsletter
- ❖ IEC and Membership
- ❖ Protocol & Liaison with INCID
- ❖ Administration (part)
- ❖ Annual Report
- ❖ IWMI
- ❖ ISO (TC 23)/ BIS
- ❖ ICID Day / World Water Day
- ❖ Africa Region

- ❖ ICID Journal
- ❖ News Update
- ❖ Library / TDS / Sale of Pubs.
- ❖ Congresses
- ❖ Database/Posters
- ❖ ISO 190
- ❖ WatSave Awards
- ❖ Asia, Europe & Americas Regions

Workbodies

- ❖ PCSPOA
- ❖ PFC
- ❖ WG-CD
- ❖ WG-TRUE
- ❖ TF-WWF5
- ❖ TF-IBWT

Workbodies

- ❖ PCTA
- ❖ C-PR&P
- ❖ WG-MIS
- ❖ WG-DRG
- ❖ WG-PQW
- ❖ WG-ON-FARM
- ❖ WG-CLIMATE
- ❖ ST-LCB
- ❖ AFRWG
- ❖ TF-LDCAF
- ❖ WG-POVERTY

Workbodies

- ❖ C-CONGR
- ❖ EB-JOUR
- ❖ WG-ENV
- ❖ WG-YPF
- ❖ WG-HIST
- ❖ ST-ARAL
- ❖ ASRWG
- ❖ WG-CROP
- ❖ WG-CAFM
- ❖ WG-SDTA
- ❖ AMRWG
- ❖ ERWG
- ❖ WG-WATS
- ❖ WG-DROUGHT

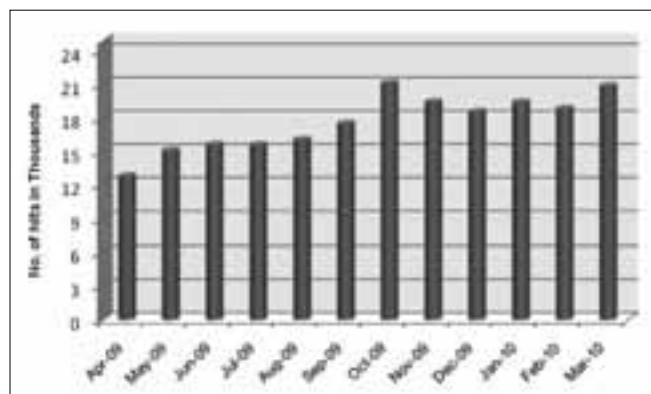
¹ Er. K.N. Sharma, Secretary ICID retired on 31 March 2010. He had joined the Central Office as Deputy Secretary (in May, 1989). Er. K.N. Sharma's service include an extension of 2 years beyond his retirement in March 2008, as per service rules.

ICID Website

The ICID.ORG has completed 13 years of its joining World Wide Web (WWW) and it has been growing immensely. The website <<http://www.icid.org>> provides instant access to a wide range of information on irrigation, drainage, and flood management. The website has English, French, Russian, and Spanish versions linked to key information. The main sections of the website are – News, About ICID, National Committees, Work Bodies, ICID Events, Publications, Database, Advertisers Catalogue, Awards, Affiliated Organizations, Text Delivery Service (TDS), Web Updates, and Vacancies.



The current and previous issues of the monthly News Update, quarterly ICID Newsletter, Annual Report and other special reports can be accessed on the website. The Advertisers Catalogue provides a platform to manufacturers, institutions, consultancy organizations to display their profile. The website is updated on regular basis and attracts an average of 17,600 hits per month.



An additional domain name ICIDONLINE.ORG has been allotted to host ICID Workbodies websites. Currently, some 19 workbodies are operational on ICIDONLINE.ORG domain name. Web address of the ICID Workbodies websites are listed on page 96.

Technical Library

The Central Office library houses technical books, reports, proceedings, and periodicals, besides ICID's own publications. The Library receives about 45 periodicals. With the acquisition of 268 new books during the period 1 April 2009 to 31 March 2010, the Library has acquired 31,538 technical reference documents. Newspaper clippings covering important developments in

the irrigation and related sectors, both within India as well as internationally is also added from time to time. The Library has a collection of about 55 video cassettes and 234 CD-ROMs on various aspects of development, operation, maintenance, and rehabilitation of irrigation works.

Text Delivery Service (TDS)

The Text Delivery Service (TDS) was launched by the ICID in August 2001, through its website. The main objective of the TDS is to facilitate easy access and communication of literature (both published and grey) on various aspects of irrigation, drainage, and flood management to all professionals across the world, including ICID members. The ICID Library Catalogue is made available in electronic format for online searching of desired literature using keywords – name of author, title, etc.

Complete document, wherever available can be viewed/downloaded through "resources available link" provided at the end of the search mode on the ICID website. The TDS facility is widely availed by many professionals worldwide. In 2009-10, 768 papers under 'Article section' and 268 publications under 'Book Section' were added to TDS making a cumulative tally of 8,529 under 'Article section' and 31,538 under 'Book section'.

Visitors to Central Office

Dr. Irena G. Bondarik, Secretary General of National Committee of the Russian Federation on Irrigation and Drainage (RuCID) visited ICID Central Office on 27 March 2010 and held discussion with Secretary General M. Gopalakrishnan. Issues discussed included forthcoming events, possible bidding for a Drainage conference by Russia and changes in the offing in RuCID.



Dr. S. Nairizi (Iran), Vice President Hon. And Chairman Permanent Finance Committee (PFC) of ICID visited Central Office on 28 and 29 May 2009. A comprehensive presentation on Central Office management and a review of the financial status of ICID was made during the meeting. Dr. Nairizi suggested that ICID should explore providing a platform for private companies to play direct roles. More ICID publications through workbodies should also be encouraged.

Dr. Nairizi also interacted with Chairman, Indian National Committee (INICID) and also delivered a talk on 'Water Resources Management in Critical Arid Basins of Iran' in Central Water Commission, New Delhi.



Mr. Waseem Nazir (Pakistan) representing Mott MacDonald in Pakistan and a member of Asian Regional Work Group (ASRWG) visited the Central Office on 3 July 2009. The Mott MacDonald was one of the sponsors of the ICID's 20th International Congress on Irrigation and Drainage in Lahore, Pakistan held in October 2008.



Prof. Tom Franks (UK), former Chairman of the erstwhile WG-CBTE visited the Central Office on 8 September 2009 and held discussions on various issues. Given the importance of capacity building in irrigation and drainage, he urged the desirability of reformulating a new working group with a new mandate on capacity building issues.



Vice Pres. **Prof. Hector M. Malano (Australia)** was in India to organize the Australia-India Workshop on 'The Future of Water Security under Climate Change' on 14 September 2009. The objective of the workshop was to bring together a multi-disciplinary group of researchers from Australian and Indian institutions to share their knowledge on how to overcome future climate change pressures on water security in both countries. On 17 September 2009, Prof. Malano, who is also the Chairman of ICID's Permanent Committee for Technical Activities (PCTA) visited the Central Office and held discussions with the Secretary General and other professionals. Besides the draft agenda for the 29th meeting of the PCTA, other issues/ topics discussed included desirability of constituting Task Forces on topics like 'sedimentation of reservoirs', 'bio-fuel policy'; and possibility of rejuvenating 'Working Group on Capacity Building'.



Er. A.K. Bajaj (India) the new Vice President of ICID was invited to the Central Office on 1 January 2010. He was felicitated by Secretary General M. Gopalakrishnan, professionals and other staff members.



Er. Bajaj is the Chairman of Indian National Committee of ICID (INCID) and the Central Water Commission (CWC) and Ex-officio Secretary to Government of India, Ministry of Water Resources.

60th Foundation Day of ICID



Mr. V.B. Patel, Dr. Gavin Lindsay Wall, SG M. Gopalakrishnan, VP A.K. Bajaj, and Mr. K.N. Sharma

To mark the 60th year of ICID foundation, Central Office on 24 June 2009 organized a brief function inviting experts/professionals from the FAO and India.

At the outset, **Er. M. Gopalakrishnan**, Secretary General made a presentation on '60 Years of ICID' and took stock of the last 59 years by highlighting key activities/events, publications, and ICID contribution to the world in the field of irrigation, drainage and flood management.

Dr. Gavin Lindsay Wall, FAO representative to India and Bhutan, briefly dealt with the impact of water scarcity on the poor and discussed the experience and views of FAO on irrigation water management. He said that water use has been growing at more than twice the rate of population increase in the last century and although there was no global water scarcity as such, an increasing number of regions were chronically short of water. According to FAO, the world hunger is projected to reach a historic high in 2009 with 1020 million people going hungry every day. By 2025, 1800 million people will be living in countries or regions with absolute water scarcity, and two-thirds of the world population could be under stress conditions. The situation will be exacerbated as rapidly growing urban areas place heavy pressure on nearby water resources. To face the challenges of

irrigation management and deliver the catch-cry of 'more crop per drop', Dr. Gavin suggested three interlinked steps as the way forward - (1) to mobilize communities and build their social capital to manage water, (2) to measure the water resource, the deliveries and the losses; as you can only manage what you can measure, and (3) to adopt a service approach to the provision of irrigation water.

Er. V. B. Patel, Former Chairman, Central Water Commission (CWC, India) talked on 'Role of Participatory Irrigation Management (PIM) in Food Security'. He said that India needs about 500 million tons of food grain to feed its estimated population of 1.6 billion by the year 2050. As cropped land area has already reached its peak at 145 million ha, expansion of the irrigated area, adopting water saving measures, and increasing crop productivity are the available options to achieve the target food production. Er. Patel said that Participatory Irrigation Management (PIM) is a favoured option to achieve the food security of the country as it has potential for not only saving water but also increased crop yields and farmers income. He apprised the lessons learnt from PIM in India and made suggestions to accelerate its up-scaling.



Financial Statement

Consolidated Receipts and Payments Account (1 April 2009 to 31 March 2010)

	2009-10 (Rs.)	2008-09 (Rs.)
RECEIPTS		
Membership Subscription	9 726 890	7 082 834
Publications	686 053	1 564 707
Conference Support	1 319 041	1 691 200
Interest	935,563	940 085
Others	1 039 542	2 541 360
Let out property (Rent)	11 933 108	16 289 641
Total Receipts	25 640 197	30 109 827
PAYMENTS		
Salaries & Retirement Dues	16 819 253	15 166 102
Services and Maintenance	2 035 248	1 973 213
Property Tax and Utilities	1 748 068	1 884 257
Rehabilitation / Refurbishing	-	266 905
ICID Journal	1 982 745	1 474 800
Printing and Distribution	750 386	2 302 694
Subscription to other organizations	-	151 776
Travel Expenditure	783 840	892 779
Payment to Land & Development Office	-	-
Contingency	-	-
Others	64 618	9 152
Total Payments	24 184 158	24 121 678
SURPLUS (DEFICIT)		
Surplus (Deficit) (1)	1 456 039	5 988 149
Grant Receipts	-	-
Grant Utilization	-	-
Surplus (Deficit) of Grants (2)	-	-
Net Surplus (Deficit) (1) + (2)	1 456 039	5 988 149
	As on 31.3.2010	As on 31.3.2009
ASSETS		
Property and Equipments	8 636 431	8 933 472
Receivables	6 065 855	7 622 064
Stocks	1 382 361	1 154 760
Cash at bank and imprest	34 142 577	26 551 385
Total Assets	50 227 224	44 261 681

LIABILITIES		
Accounts payable	9 214 948	3 114 948
Grants	-	-
Gratuity Fund	34 436 656	2 982 138
Superannuation Fund	1 237 075	1 583 289
Total Liabilities	13 895 679	7 680 375
NET ASSETS RESERVES	36 331 545	36 524 858
General Fund	35 821 516	35 785 167
Dictionary	510 029	739 691

The expenses incurred during the financial year 2009-10 were Rs. 24.18 million, against the receipts of about Rs. 25.64 million, thus showing a surplus of about 1.46 million. The surplus resulted due to arrears of rent from let-out property and deferment of payment as due (*demand notice yet to be received*) from Land and Development Office (L&DO), of the Government of India from rent accruals.





APPENDICES

Membership Network - Regionwise

AFRICA	AMERICAS	ASIA AND OCEANIA	EUROPE
Active	Active	Active	Active
1. Egypt (ENCID) 2. Ethiopia (ETCID) 3. Mali (AMID) 4. Morocco (ANAFIDE) 5. Niger (ANID) 6. Nigeria (NINCID) 7. South Africa (SANCID) 8. Zambia (ZACID)	1. Brazil (ABID) 2. Canada (CANCID) 3. Chile (CHICID) 4. Guyana (GUCID) 5. Mexico (MXCID) 6. Uruguay (URCID) 7. USA (USCID)	1. Afghanistan (AFGICID) 2. Australia (IAL) 3. Bangladesh (BANCID) 4. China (CNCID) 5. Chinese Taipei (CTCID) 6. Fiji (FJCID) 7. India (INCID) 8. Indonesia (INACID) 9. Iran (IRNCID) 10. Iraq (IRQCID) 11. Israel (ISCID) 12. Japan (JNC-ICID) 13. Kazakhstan (KAZCID) 14. Korea (KCID-ICID) 15. Kyrgyz Republic (KYRCID) 16. Malaysia (MANCID) 17. Myanmar (MINCID) 18. Nepal (NENCID) 19. Pakistan (PANCID) 20. Philippines (PNC-ICID) 21. Saudi Arabia (SACID) 22. Sri Lanka (SLNICID) 23. Syria (SYCID) 24. Thailand (THAICID) 25. Turkey (TUCID) 26. Uzbekistan (UzNCID)	1. Austria (AUNCID) 2. Croatia (CRCID) 3. Cyprus (CYCID) 4. Czech Republic (CZNC-ICID) 5. Estonia (ESTCID) 6. Finland (FINCID) 7. France (AFEID) 8. Germany (GECID) 9. Greece (GRCID) 10. Hungary (HUCID) 11. Ireland (IRCID) 12. Italy (ITAL-ICID) 13. Lithuania (LNCID) 14. Macedonia (MAKCID) 15. Netherlands (NETHCID) 16. Portugal (PNCID) 17. Romania (CNRID) 18. Russia (RUCID) 19. Serbia (YUGCID) 20. Slovenia (SINCID) 21. Spain (CERYD) 22. Switzerland (CH-AGRAM) 23. UK (ICID.UK) 24. Ukraine (UKCID)
Deemed to be inactive	Deemed to be inactive		
1. Algeria (CNAID) 2. Angola (ANGCID) 3. Ghana (CHANCID) 4. Ivory Coast (IVCID) 5. Kenya (KENCID) 6. Libya (LICID) 7. Madagascar (MADCID) 8. Malawi (MILCID) 9. Mozambique (MOCID) 10. Senegal (SENCID) 11. Sudan (SUCID) 12. Tanzania (TANCID) 13. Tunisia (TUNCID) 14. Uganda (UGCID) 15. Zimbabwe (ZICID)	1. Argentina (ARCID) 2. Colombia (INAT) 3. Dominican Republic (DOMCID) 4. Ecuador (EDORCID) 5. Honduras (HOCID) 6. Panama (PANACID) 7. Peru (PERU-ICID) 8. Surinam (SURCID) 9. Venezuela (VENCID)		
Admitted but not paid subscription	Withdrawn on their own	Deemed to be inactive	Deemed to be inactive
1. Burkina Faso (BURCID) 2. Cameroon (CAMCID) 3. Chad (ATID) 4. Mauritius (MAUCID) 5. Sao Tome and Principe (SAOCID)	Cuba (CUCID)	1. Jordan (JORCID) 2. Lebanon (LEBCID) 3. Tajikistan (TAJCID) 4. Vietnam (VICID)	1. Belgium (BELCID) 2. Bulgaria (BNCID) 3. Poland (POCID) 4. Slovak Republic (SKNC-ICID)
	Admitted but not paid subscription		
	Jamaica (JAMICID)		
		Withdrawn on their own	Withdrawn on their own
		New Zealand (NEWCID)	Denmark (DENCID)
		Admitted but not paid subscription	
		1. Azerbaijan (AZERCID) 2. Mongolia (MOGCID) 3. Turkmenistan (TURMICI) 4. Yemen (YECID)	

Region	Active	Deemed to be inactive	Admitted but not paid subscription	Withdrawn	Total
Africa	08	15	05	-	28
Americas	07	09	1	01	18
Asia and Oceania	26	04	04	01	35
Europe	24	04	-	01	29
Total	65	32	10	03	110

Workbodies and Task Forces (As on 10.12.2009)

1. ADMINISTRATIVE COMMITTEES		
Sl. No.	Title	Year of establishment
1.1	OFFICE BEARERS COMMITTEE (OBC)	1976
1.2	MANAGEMENT BOARD (MB)	1991
1.3	STAFF COMMITTEE (SC)	1995
2. PERMANENT COMMITTEES		
Sl. No.	Title	Year of establishment
2.1	PERMANENT FINANCE COMMITTEE (PFC)	1976
2.2	PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)	1981
2.3	PERMANENT COMMITTEE ON STRATEGY PLANNING AND ORGANIZATIONAL AFFAIRS (PCSPOA)	1997
3. COMMITTEES / WORKING GROUPS / WORK TEAMS AND TASK FORCES UNDER PCTA		
Sl. No.	Title	Year of establishment
3.1	Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST)	1981
3.2	Working Group on Drainage (WG-DRG)	1983
3.3	Working Group on Environmental (WG-ENV)	1986
3.4	Committee on Public Relations and Publications (C-PR&P)	1992
3.5	Working Group on Water Saving for Agriculture (WG-WATS)	1994
3.6	ICID Journal Editorial Board (EB-JOUR)	1994
3.7	Working Group on Use of Poor Quality Water for Irrigation (WG-PQW)	1996
3.8	Working Group on On-Farm Irrigation Systems (WG-ON-FARM)	1998
3.9	Working Group on Comprehensive Approaches to Flood Management (WG-CAFM)	1999
3.10	Working Group on Sustainable Development of Tidal Areas (WG-SDTA)	2001
3.11	Working Group on Modernization of Irrigation Services (WG-MIS)	2007
3.12	Working Group on Water and Crops (WG-CROP)	2007
3.13	Working Group on Technology and Research Uptake and Exchange (WG-TRUE)	2007
3.14	Working Group on Global Climate Change and Agricultural Water Management (WG-CLIMATE)	2007
3.15	Task Force on Financing Water for Agriculture (TF-FIN)	2007
3.16	Working Group on the Role of Irrigation on Poverty Alleviation and Livelihoods (WG-POVERTY)	2008
3.17	Working Group on Water Management in Water Stressed Regions (WG-DROUGHT)	2008
3.18	Task Force on Water for Bio-Energy and Food (TF-BIO-ENERGY)	2009
4. COMMITTEES / REGIONAL WORKING GROUPS / WORK TEAMS UNDER PCSPOA		
Sl. No.	Title	Year of establishment
4.1	Working Group on Young Irrigation Professionals Forum (WG-YPF)	1993
4.2	European Regional Working Group (ERWG)	1995
4.3	Asian Regional Working Group (ASRWG)	1996
4.4	Committee on Congresses/Conferences (C-CONGR)	1997
4.5	African Regional Working Group (AFRWG)	2000
4.6	American Regional Working Group (AMRWG)	2003
4.7	Special Work Team on Lake Chad Basin (ST-LCB)	2004
4.8	Working Group on Irrigation and Drainage in States under Social-Economic Transformation (WG-IDSST)	2009

Countrywise Membership on Workbodies and Task Forces

S. No.	Country (NC)	No. of members	No. of Workbodies (WBs) and Task Forces (TFs) represented	Names of Workbodies (WBs) and Task Forces (TFs)
1	Afghanistan (AFGHCID)	-	-	-
2	Australia (ANCID)	9	15	WG-CAFM, WG-DRG, C-PR&P, MB, ASRWG, WG-ENV, WG-CLIMATE, PCTA, EB-JOUR, WG-CD, WG-WATS, WG-TRUE, WG-ON-FARM, WG-DROUGHT, WG-PQW
3	Austria (AUNCID)	2	2	ERWG, WG-HIST
4	Bangladesh (BANCID)	1	1	ASRWG
5	Brazil (ABID)	-	-	-
6	Canada (CANCID)	8	9	WG-TRUE, ST-ARAL, MB, SC, EB-JOUR, WG-DRG, WG-CROP, WG-CLIMATE, TF-IBWT
7	Chile (CHICID)	-	-	-
8	China (CNCID)	14	20	WG-DRG, WG-TRUE, ASRWG, WG-ENV, WG-WATS, WG-MIS, WG-ON-FARM, WG-CLIMATE, WG-PQW, WG-YPF, PFC, WG-SDTA, WG-CD, PCSPOA, C-CONGR, WG-CROP, WG-HIST, WG-CAFM, EB-JOUR, WG-DROUGHT
9	Chinese Taipei (CTCID)	14	15	WG-DRG, WG-SDTA, ASRWG, WG-ENV, EB-JOUR, C-PR&P, WG-WATS, WG-DROUGHT, WG-ON-FARM, WG-HIST, WG-CROP, WG-PQW, WG-CLIMATE, WG-MIS, TF-IBWT
10	Croatia (CRCID)	3	3	WG-HIST, WG-CAFM, ERWG
11	Cyprus (CYCID)	1	1	ERWG
12	Czech Republic (CZNC-ICID)	2	2	ERWG, WG-PQW
13	Egypt (ENCID)	7	12	WG-TRUE, WG-DRG, WG-ENV, WG-WATS, WG-DROUGHT, PCSPOA, PCTA, WG-PQW, C-PR&P, AFRWG, ST-LCB, TF-LDCsAF
14	Estonia (ESTICID)	1	1	ERWG
15	Ethiopia (ETCID)	1	2	AFRWG, TF-LDCsAF
16	Fiji (FIJICID)	-	-	-
17	Finland (FINCID)	3	3	ERWG, WG-ENV, WG-DRG
18	France (AFEID)	13	19	ERWG, WG-TRUE, AFRWG, WG-MIS, WG-ENV, WG-CROP, WG-CD, WG-ON-FARM, PCTA, EB-JOUR, TF-POVERTY, WG-CLIMATE, WG-HIST, PCSPOA, PFC, WG-WATS, WG-YPF, WG-PQW, ST-ARAL
19	Germany (GECID)	7	8	ERWG, WG-ENV, PCSPOA, EB-JOUR, WG-HIST, WG-DRG, WG-ON-FARM, WG-SDTA
20	Greece (GRCID)	1	1	ERWG
21	Guyana (CUCID)	-	-	-
22	Hungary (HUCID)	4	6	WG-HIST, PFC, ERWG, WG-TRUE, WG-ON-FARM, WG-CAFM
23	India (INCID)	18	21	TF-IBWT, WG-TRUE, WG-DRG, WG-CAFM, C-PR&P, WG-YPF, WG-CLIMATE, WG-WATS, WG-SDTA, PCTA, ASRWG, C-CONGR, EB-JOUR, PFC, WG-HIST, WG-MIS, WG-ON-FARM, WG-CD, WG-PQW, WG-CROP, TF-FIN

S. No.	Country (NC)	No. of members	No. of Workbodies (WBs) and Task Forces (TFs) represented	Names of Workbodies (WBs) and Task Forces (TFs)
24	Indonesia (INACID)	4	6	WG-SDTA, WG-HIST, WG-SDTA, EB-JOUR, ASRWG, PCSPOA
25	Iran (IRNCID)	12	17	WG-DRG, WG-CAFM, WG-WATS, WG-TRUE, C-PR&P, WG-DROUGHT, WG-ON-FARM, EB-JOUR, PFC, WG-YPF, WG-HIST, ASRWG, WG-PQW, PCSPOA, WG-CLIMATE, WG-ENV, C-CONGR
26	Iraq (IRQCID)	-	-	-
27	Ireland (IRCID)	1	1	ERWG
28	Israel (ISCID)	1	1	WG-PQW
29	Italy (ITAL-ICID)	12	16	WG-CD, AFRWG, ERWG, PCTA, WG-CROP, EB-JOUR, ST-ARAL, WG-IDROUGHT, WG-ON-FARM, WG-WATS, C-PR&P, PCSPOA, WG-ENV, PFC, WG-HIST, WG-TRUE
30	Japan (JNC-ICID)	12	19	WG-CAFM, WG-HIST, WG-ENV, WG-SDTA, EB-JOUR, ST-ARAL, WG-CROP, WG-ON-FARM, PFC, ASRWG, WG-TRUE, TF-IBWT, PCTA, WG-PQW, WG-DRG, WG-YPF, PCSPOA, WG-CLIMATE, WG-MIS
31	Kazakhstan (KAZCID)	-	-	-
32	Korea (KCID-ICID)	11	11	WG-ENV, WG-DRG, WG-SDTA, PCSPOA, WG-CAFM, WG-ON-FARM, WG-CROP, ASRWG, EB-JOUR, WG-HIST, WG-YPF
33	Kyrgyz Republic (KYRCID)	-	-	-
34	Lithuania (LTCID)	1	1	ERWG
35	Macedonia (MAKCID)	1	1	ERWG
36	Mali (AMID)	1	1	AFRWG
37	Malaysia (MANCID)	6	7	WG-DRG, EB-JOUR, ASRWG, WG-SDTA, PCAPOA, WG-TRUE, WG-YPF
38	Mexico (MXCID)	5	3	AMRWG, WG-PQW, EB-JOUR
39	Morocco (ANAFIDE)	3	3	WG-ENV, WG-PQW, WG-MIS
40	Myanmar (MNCID)	-	-	-
41	Nepal (NENCID)	1	1	ASRWG
42	Netherlands (NETHCID)	14	17	WG-ON-FARM, ERWG, WG-CAFM, WG-HIST, WG-ENV, WG-YPF, WG-PQW, WG-POVERTY, WG-SDTA, EB-JOUR, WG-DRG, C-PR&P, WG-TRUE, WG-MIS, WG-DROUGHT, TF-FIN, TF-IBWT,
43	Niger (ANID)	-	-	-
44	Nigeria (NINCID)	5	7	WG-DRG, ST-ARAL, ST-LCB, WG-ON-FARM, AFRWG, WG-HIST, TF-LDCsAF
45	Pakistan (PANCID)	9	13	WG-CROP, WG-DRG, WG-PQW, EB-JOUR, ST-ARAL, TF-IBWT, ASRWG, PFC, WG-HIST, WG-CAFM, C-CONGR, WG-ENV, WG-YPF
46	Philippines (PNC-ICID)	-	-	-
47	Portugal (PNCID)	4	4	WG-ENV, WG-ON-FARM, EB-JOUR, ERWG
48	Romania (CNRID)	1	1	ERWG
49	Russia (RuCID)	8	8	WG-TRUE, ERWG, PCTA, PCSPOA, ST-ARAL, PFC, WG-YPF, WG-DRG
50	Saudi Arabia (SACID)	-	-	-
51	Serbia Republic (YUGCID)	1	1	ERWG
52	Slovenia (SINCID)	4	5	WG-ENV, WG-CROP, WG-DRG, ERWG, WG-CAFM
53	South Africa (SANCID)	12	14	WG-TRUE, WG-DRG, WG-YPF, EB-JOUR, WG-WATS, AFRWG, ST-LCB, WG-PQW, WG-ON-FARM, PCSPOA, WG-CROP, WG-CLIMATE, WG-MIS, WG-CAFM

S. No.	Country (NC)	No. of members	No. of Workbodies (WBs) and Task Forces (TFs) represented	Names of Workbodies (WBs) and Task Forces (TFs)
54	Spain (CERYD)	6	10	TF-IBWT, WG-CROP, WG-MIS, WG-WATS, WG-HIST, ERWG, WG-TRUE, WG-ON-FARM, AMRWG, WG-ENV
55	Sri Lanka (SLNICID)	1	1	ASRWG
56	Switzerland (CH-AGRAM)	2	2	WG-CROP, ERWG
57	Syria (CYCID)	2	2	WG-DRG, WG-ENV
58	Thailand (THAICID)	3	4	ASRWG, WG-ENV, C-PR&P, WG-HIST
59	Turkey (TUCID)	5	7	WG-MIS, WG-ENV, WG-CAFM, WG-DRG, PCTA, WG-CLIMATE, ASRWG
60	United Kingdom (ICID.UK)	13	16	WG-HIST, ERWG, WG-CAFM, AFRWG, ST-LCB, WG-WATS, EB-JOUR, MB, C-PR&P, WG-TRUE, WG-MIS, AC-IPTRID, ST-ARAL, WG-CROP, WG-SDTA, WG-DROUGHT
61	Ukraine (UACID)	1	3	ERWG, WG-ON-FARM, PCSPOA
62	Uruguay (URUCID)	-	-	-
63	USA (USCID)	15	24	WG-CROP, WG-ON-FARM, WG-DRG, WG-MIS, WG-TRUE, PFC, TF-FIN, EB-JOUR, WG-CD, WG-WATS, ST-ARAL, WG-PQW, WG-CAFM, C-PR&P, C-CONGR, PCTA, PFC, PCSPOA, ST-LCB, WG-CLIMATE, AMRWG, WG-ENV, WG-POVERTY, TF-IBWT
64	Uzbekistan (UzNCID)	2	3	ST-ARAL, ST-LCB, ASRWG
65	Zambia (ZACID)	1	1	AFRWG

Regionwise Membership and Workbodies Represented

AFRICA

Sl. No.	Country	No. of workbodies represented	Number of members
1	Egypt (ENCID)	12	7
2	Ethiopia (ETCID)	2	1
3	Mali (AMID)	1	1
4	Morocco (ANAFIDE)	3	3
5	Niger (ANID)	-	-
6	Nigeria (NINCID)	7	5
7	South Africa (SANCID)	14	12
8	Zambia (ZACID)	1	1
	TOTAL	40	30

AMERICAS

Sl. No.	Country	No. of workbodies represented	Number of members
1	Brazil (ABID)	-	-
2	Canada (CANCID)	9	8
3	Chile (CHICID)	-	-
4	Guyana (GUCID)	-	-
5	Mexico (MXCID)	3	5
6	Uruguay (URCID)	-	-
7	USA (USCID)	24	15
	TOTAL	36	28

ASIA AND OCEANA

Sl. No.	Country	No. of workbodies represented	Number of members
1	Afghanistan (AFGHICID)	-	-
2	Australia (ANCID/IAL)	15	9
3	Bangladesh (BANCID)	1	1
4	China (CNCID)	20	14
5	Chinese Taipei (CTCID)	15	14
6	Fiji (FIJICID)	-	-
7	India (INCID)	21	18
8	Indonesia (INACID)	6	4
9	Iran (IRNCID)	17	12
10	Iraq (IRQCID)	-	-
11	Israel (ISCID)	1	1
12	Japan (JNC-ICID)	19	12
13	Kazakhstan (KAZCID)	-	-
14	Korea (KCID)	11	11
15	Kyrgyz Rep.(KRYCID)	-	-
16	Malaysia (MANCID)	7	6
17	Myanmar (MYAMA)	-	-
18	Nepal (NENCID)	1	1
19	Pakistan (PANCID)	13	9
20	Philippines (PHINCID)	-	-
21	Saudi Arabia (SACID)	-	-
22	Sri Lanka (SLINCID)	1	1
23	Syria (SYCID)	2	2
24	Thailand (THAICID)	4	3
25	Turkey (TUCID)	7	5
26	Uzbekistan (UzNCID)	3	2
	TOTAL	164	125

EUROPE

Sl. No.	Country	No. of workbodies represented	Number of members
1	Austria (AUNCID)	2	2
2	Croatia (CRCID)	3	3
3	Cyprus (CYCID)	1	1
4	Czech Rep.(CZNC-ICID)	2	2
5	Estonia (ESTCID)	1	1
6	Finland (FINCID)	3	3
7	France(AFEID)	19	13
8	Germany (GECID)	8	7
9	Greece (GRCID)	1	1
10	Hungary (HUCID)	6	4
11	Ireland (IRCID)	1	1
12	Italy (ITAL-ICID)	16	12
13	Lithuania (LTCID)	1	1
14	Macedonia (MAKCID)	1	1
15	Netherlands (NETHCID)	17	14
16	Portugal (PNCID)	4	4
17	Romania (CNRID)	1	1
18	Russia (RuCID)	8	8
19	Serbia (YUGCID)	1	1
20	Spain (CEYRD)	10	6
21	Slovenia (SINCID)	5	4
22	Switzerland CH-AGRAM)	3	2
23	UK (ICID.UK)	16	13
24	Ukraine (UACID)	3	1
	TOTAL	123	106

SUMMARY

Region	Number of workbodies represented	Number of members
AFRICA	40	30
AMERICAS	36	28
ASIA & OCEANIA	164	125
EUROPE	123	106
TOTAL	363	289

World Irrigated Area - Regionwise

AFRICA

Sl. No.	Country	Irrigated Area Million ha	Reference Year
1.	Egypt	3.530	2007 ²
2.	Sudan	1.863	2007 ²
3.	South Africa	1.600	2007 ¹
4.	Morocco	1.484	2007 ²
5.	Madagascar	1.086	2007 ²
6.	Algeria	0.570	2007 ²
7.	Libya	0.470	2007 ²
8.	Tunisia	0.418	2007 ²
9.	Ethiopia	0.390	2005 ¹
10.	Nigeria	0.293	2007 ²
11.	Mali	0.236	2007 ²
12.	Somalia	0.200	2007 ²
13.	Tanzania	0.184	2007 ²
14.	Zimbabwe	0.174	2007 ²
15.	Zambia	0.156	2007 ²
16.	Senegal	0.120	2007 ²
17.	Mozambique	0.118	2007 ²
18.	Kenya	0.103	2007 ²
19.	Angola	0.080	2007 ²
20.	Niger	0.074	2007 ²
21.	Ivory Coast	0.073	2007 ²
22.	Malawi	0.056	2007 ²
23.	Swaziland	0.050	2007 ²
24.	Mauritania	0.045	2007 ²
25.	Ghana	0.031	2007 ²
26.	Chad	0.030	2007 ²
27.	Sierra Leone	0.030	2007 ²
28.	Cameroon	0.026	2007 ²
29.	Burkina Faso	0.025	2007 ²
30.	Guineabissau	0.025	2007 ²
31.	Burundi	0.021	2007 ²
32.	Mauritius	0.021	2007 ²
33.	Eritrea	0.021	2007 ²
34.	Congo, Dem. R.	0.011	2007 ²
35.	Sao-Tome Prn.	0.010	2007 ²
36.	Uganda	0.009	2007 ²
37.	Rwanda	0.009	2007 ²
38.	Namibia	0.008	2007 ²
39.	Togo	0.007	2007 ²
40.	Gabon	0.007	2007 ²
41.	Barbados	0.005	2007 ²
42.	Cape Verde	0.003	2007 ²
43.	Liberia	0.003	2007 ²
44.	Lesotho	0.003	2007 ²
45.	Gambia	0.002	2007 ²
46.	Congo, Rep.	0.002	2007 ²
47.	Botswana	0.002	2007 ²
48.	Brunei Darism	0.001	2007 ²
49.	Fr Polynesia	0.001	2007 ²
50.	Djibouti	0.001	2007 ²
	Sub-Total	13.687	

AMERICAS

Sl. No.	Country	Irrigated Area Million ha	Reference Year
1.	USA	22.905	2007 ²
2.	Mexico	6.300	2007 ²
3.	Brazil	3.500	2006 ¹
4.	Argentina	1.550	2007 ²
5.	Peru	1.198	2007 ²
6.	Chile	1.090	2007 ¹
7.	Colombia	0.900	2007 ²
8.	Cuba	0.870	2007 ²
9.	Ecuador	0.865	2007 ²
10.	Canada	0.855	2007 ²
11.	Venezuela	0.580	2007 ²
12.	Dominican Rep.	0.275	2007 ²
13.	Uruguay	0.218	2007 ²
14.	Guyana	0.150	2007 ²
15.	Bolivia	0.150	2007 ²
16.	Guatemala	0.130	2007 ²
17.	Costa Rica	0.108	2007 ²
18.	Haiti	0.092	2007 ²
19.	Honduras	0.080	2007 ²
20.	Paraguay	0.067	2007 ²
21.	Nicaragua	0.061	2007 ²
22.	Surinam	0.051	2007 ²
23.	El Salvador	0.045	2007 ²
24.	Panama	0.043	2007 ²
25.	Puerto Rico	0.040	2007 ²
26.	Jamaica	0.025	2007 ²
27.	Benin	0.012	2007 ²
28.	Newcaledonia	0.010	2007 ²
29.	Trinidad and Tobago	0.007	2007 ²
30.	Belize	0.004	2007 ²
31.	St. Lucia	0.003	2007 ²
32.	Malta	0.003	2007 ²
33.	Bahmas	0.001	2007 ²
34.	St. Vincent	0.001	2007 ²
	Sub-Total	42.189	

OCEANIA

Sl. No.	Country	Irrigated Area Million ha	Reference Year
1.	Australia	2.550	2007 ²
2.	New Zealand	0.555	2007 ²
	Sub-Total	3.105	

ASIA

Sl. No.	Country	Irrigated Area Million ha	Reference Year
1.	India	60.850	2007 ¹
2.	China	57.780	2009 ¹
3.	Pakistan	19.590	2007 ¹
4.	Iran	8.700	2009 ¹
5.	Turkey	5.340	2009 ¹
6.	Thailand	4.986	2007 ²
7.	Bangladesh	4.730	2002 ¹
8.	Indonesia	4.500	2007 ²
9.	Uzbekistan	4.281	2007 ²
10.	Iraq	3.525	2007 ²
11.	Afghanistan	3.199	2007 ²
12.	Viet Nam	3.000	2007 ²
13.	Japan	2.530	2009 ¹
14.	Myanmar	2.250	2007 ²
15.	Kazakhstan	2.122	2007 ¹
16.	Turkmenistan	1.800	2007 ²
17.	Saudi Arabia	1.731	2007 ²
18.	Philippines	1.520	2008 ¹
19.	Korea, DP Rep	1.460	2007 ²
20.	Azerbaijan	1.426	2007 ²
21.	Syria	1.396	2007 ²
22.	Nepal	1.168	2007 ²
23.	Korea Rep.	1.120	2007 ¹
24.	Kyrgyzstan	1.021	2007 ²
25.	Cambodia	0.900	2007 ²
26.	Tajikistan	0.722	2007 ²
27.	Yemen	0.680	2007 ²
28.	Sri Lanka	0.570	2007 ²
29.	Georgia	0.433	2007 ²
30.	Malaysia	0.385	2009 ¹
31.	Chinese Taipei	0.380	2009 ¹
32.	Lao People DR	0.300	2007 ²
33.	United Arab Emirates	0.227	2007 ²
34.	Israel	0.225	2007 ²
35.	Lebanon	0.104	2007 ²
36.	Mongolia	0.084	2007 ²
37.	Jordan	0.081	2007 ²
38.	Oman	0.059	2007 ²
39.	Bhutan	0.040	2007 ²
40.	Qatar	0.013	2007 ²
41.	Kuwait	0.009	2007 ²
42.	Bahrain	0.004	2007 ²
43.	Fiji Island	0.003	2007 ²
44.	China, H.Kong	0.002	2007 ²
	Sub-Total	205.236	

EUROPE

Sl. No.	Country	Irrigated Area Million ha	Reference Year
1.	Russia	4.500	2007 ¹
2.	Spain	3.800	2007 ¹
3.	Italy	2.750	2007 ¹
4.	France	2.706	2007 ²
5.	Ukraine	2.180	2009 ¹
6.	Greece	1.594	2007 ²
7.	Romania	1.500	2008 ¹
8.	Portugal	0.588	2007 ²
9.	Germany	0.485	2007 ²
10.	Bulgaria	0.450	2007 ²
11.	Denmark	0.435	2007 ²
12.	Netherlands	0.408	2007 ²
13.	Albania	0.365	2007 ²
14.	Moldova Rep.	0.228	2007 ²
15.	Hungary	0.208	2004 ¹
16.	Slovak Republic	0.180	2007 ²
17.	Sweden	0.167	2007 ²
18.	Belarus	0.131	2007 ²
19.	Poland	0.124	2007 ²
20.	Austria	0.120	2007 ²
21.	Norway	0.118	2007 ²
22.	UK	0.110	2005 ¹
23.	Ireland	0.100	2010 ¹
24.	Serbia, Republic of	0.083	2007 ²
25.	Finland	0.080	2009 ¹
26.	Macedonia	0.055	2007 ²
27.	Czech Rep.	0.047	2007 ²
28.	Cyprus	0.046	2007 ²
29.	Lithuania	0.043	2007 ¹
30.	Switzerland	0.040	2007 ¹
31.	Belgium	0.023	2007 ²
32.	Croatia	0.016	2007 ²
33.	Slovenia	0.008	2009 ¹
34.	Martinique	0.006	2007 ²
35.	Guadeloupe	0.005	2007 ²
36.	Estonia	0.001	2010 ¹
37.	Bosnia & Herzegovina	0.003	2007 ²
38.	Fr Guiana	0.002	2007 ²
39.	Latvia	0.001	2007 ²
	Sub-Total	23.706	
	TOTAL	287.923	

SUMMARY

Sl. No.	Region	Irrigated Area (million ha)
1.	Africa	13.687
2.	Americas	42.189
3.	Asia and Oceania	208.34
4.	Europe	23.706
	TOTAL	287.923

Note: ¹ICID data; ²FAO data (FAO Stat – FAO Statistics Division 2010)

Bold and Italic: Active National Committee/Committee

Italic: Inactive National Committees

World Drained Area – Regionwise

AFRICA

Sl. No.	Country	Arable land and permanent crops (million ha)	Total drained area (million ha)	% drained area	Reference year
1	Algeria	8.393	0.06	0.72	1999 ²
2	Egypt	3.54	3.02	85.31	1998 ²
3	Ethiopia	15.08	0.03	0.20	1987 ²
4	Kenya	5.7	0.03	0.53	2003 ²
5	Libya	2.05	0.01	0.49	2000 ²
6	Madagascar	3.55	0.11	3.10	2000 ²
7	Morocco	8.96	0.65	7.25	2004 ²
8	Rwanda	1.47	0.09	6.12	2000 ²
9	South Africa	19.28	0.08	0.41	2007 ¹
10	Sudan	19.55	0.56	2.86	2000 ²
11	Tunisia	4.93	0.2	4.06	2000 ²
	Sub-Total	92.5	4.84	5.23	

AMERICAS

12	Argentina	33.5	0.13	0.39	2002 ²
13	Bolivia	3.83	0.02	0.52	2000 ²
14	Brazil	66.6	1.31	1.97	2006 ¹
15	Canada	52.15	9.46	18.14	2002 ²
16	Chile	0.78	0.035	4.49	2006 ¹
17	Colombia	3.57	0.23	6.44	1989 ²
18	Costa Rica	0.5	0.04	8.00	1999 ²
19	Cuba	3.99	0.33	8.27	1997 ²
20	Dominican Rep.	1.32	0.03	2.27	2000 ²
21	Ecuador	2.41	0.05	2.07	1998 ²
22	El Salvador	0.92	0.01	1.09	1997 ²
23	Guyana	0.45	0.15	33.33	1991 ²
24	Honduras	1.43	0.06	4.20	1991 ²
25	Mexico	26.9	5.2	19.33	1997 ²
26	Paraguay	4.4	0.01	0.23	2000 ²
27	Peru	4.56	0.08	1.75	2000 ²
28	Puerto Rico	0.1	0.02	20.00	2000 ²
29	Surinam	0.06	0.05	83.33	1998 ²
30	USA	173.16	47.5	27.43	1987 ²
31	Venezuela	3.35	0.31	9.25	2002 ²
	Sub-Total	383.98	65.025	16.93	

ASIA

Sl.No.	Country	Arable land and permanent crops (million ha)	Total drained area (million ha)	% drained area	Reference year
32	Afghanistan	8.66	0.01	0.12	2000 ²
33	Australia	44.53	2.17	4.87	2002 ²
34	Azerbaijan	2.08	0.6	28.85	1995 ²
35	Bangladesh	8.45	1.5	17.75	1993 ²
36	China	130.03	21.14	16.26	2009 ¹
37	Chinese Taipei	0.83	0.12	14.46	2009 ¹
38	Fiji Island	0.25	0.01	4.00	2000 ²
39	Georgia	0.58	0.16	27.59	1996 ²
40	India	169.5	5.8	3.42	1991 ²
41	Indonesia	37.5	3.35	8.93	1990 ²
42	Iran	18.55	0.19	1.02	2009 ¹
43	Iraq	5.45	1.54	28.26	2002 ²
44	Israel	0.38	0.1	26.32	1987 ²
45	Japan	4.71	3.66	77.71	2002 ²
46	Kazakhstan	22.8	0.43	1.89	1993 ²
47	Korea Rep.	1.82	1.15	63.19	2007 ¹
48	Kyrgyzstan	1.35	0.15	11.11	1990 ²
49	Lebanon	0.29	0.01	3.45	2001 ²
50	Malaysia	9.5	6.0	63.16	2009 ¹
51	Mongolia	0.85	1.5	176.47	2000 ²
52	Myanmar	11.68	0.19	1.63	1994 ²
53	Nepal	2.47	0.09	3.64	2000 ²
54	Pakistan	22.05	7.86	35.65	2006 ¹
55	Philippines	9.16	2.72	29.69	2008 ¹
56	Saudi Arabia	3.62	0.04	1.10	1992 ²
57	Sri Lanka	1.92	0.03	1.56	1967 ²
58	Syria	5.68	0.27	4.75	1993 ²
59	Tajikistan	0.81	0.33	40.74	1994 ²
60	Thailand	18.95	0.16	0.84	1997 ²
61	Turkey	26.01	3.04	11.69	2009 ¹
62	Turkmenistan	1.91	1.02	53.40	1995 ²
63	Uzbekistan	4.64	2.84	61.21	1994 ²
64	Viet Nam	9.43	1.0	10.60	1994 ²
65	Yemen	1.62	1.5	92.59	2000 ²
	Sub-Total	588.06	70.68	12.02	

EUROPE

Sl.No.	Country	Arable land and permanent crops (million ha)	Total drained area (million ha)	% drained area	Reference year
66	Albania	0.7	0.28	40.00	19992
67	Austria	1.45	0.2	13.79	1997 ²
68	Belarus	5.65	3.0	53.10	1993 ²
69	Belgium	0.86	0.07	8.14	1996 ²
70	Bulgaria	3.28	0.08	2.44	2000 ²
71	Croatia	0.93	0.76	81.72	1990 ²
72	Cyprus	0.16	0.02	12.50	2000 ²
73	Czech Rep.	3.27	0.4	12.23	2000 ²
74	Denmark	2.31	1.44	62.34	1993 ²
75	Estonia	1.32	1.32	100.00	2010 ¹
76	Finland	2.26	2.5	110.62	2008 ¹
77	France	19.52	2.5	12.81	1996 ²
78	Germany	12.07	4.9	40.60	1993 ²
79	Greece	3.68	0.52	14.13	2002 ²
80	Hungary	4.8	2.3	47.92	2003 ¹
81	Ireland ⁴	1.06	0.254	23.96	2010 ¹
82	Italy	13.2	5.3	40.15	2005 ¹
83	Latvia	1.2	1.58	131.67	1995 ²
84	Lithuania ⁵	2.93	2.58	88.05	2010 ¹
85	Netherlands ⁶	1.09	3.0	275.23	2010 ¹
86	Poland	12.91	4.21	32.61	1999 ²
87	Portugal	1.67	0.04	2.40	2002 ²
88	Romania	9.85	1.83	18.58	2008 ¹
89	Russia	192.6	4.78	2.48	2007 ¹
90	Serbia & Montenegro	3.72	0.4	10.75	2000 ²
91	Slovak Republic	1.4	0.6	42.86	1997 ²
92	Slovenia	0.2	0.08	40.00	2007 ¹
93	Spain	26.03	0.3	1.15	1994 ²
94	Sweden	2.65	1.1	41.51	1996 ²
95	Switzerland	1.1	0.16	14.55	2002 ²
96	UK	6.13	4.65	75.86	1996 ²
97	Ukraine	33.5	2.8	8.36	2009 ¹
	Sub-Total	373.50	53.95	14.45	
	TOTAL	1438.04	194.50	13.53	

SUMMARY

Sl.No.	Region	Arable land and permanent crops (million ha)	Total drained area (million ha)	% drained area
1	Africa	92.5	4.84	5.23
2	Americas	383.98	65.025	16.93
3	Asia	588.281	70.68	12.01
4	Europe	373.50	53.95	14.45
	Total (97 countries)	1438.041	194.499	13.53
	World	1553.69	202.9	13.06

*Countries shown in bold are active members of ICID

Note:

- 1 ICID data (both for arable land and permanent crop (APC) and for drained areas)
- 2 Cemagref data (for drained area)
- 3 FAO data (the APC area of other countries is used from <http://faostat.fao.org/site/377/DesktopDefault.aspx?PageID=377#ancor>)
- 4 The total drained area in Ireland is 0.254 million ha, the total utilised agricultural area is 4.02 million ha. Apart from a very small area of Ireland that is irrigated on a commercial basis for crop production there are no major irrigation schemes in Ireland. Suggested figure for irrigated area in Ireland is 10,000 hectares. Source: Dr. Oliver Nicholson, Chairman, Irish National Committee on Irrigation and Drainage (IRCID), 28 June 2010
- 5 Statistics referred as "arable land" in Lithuanian registry as per 01.01.2010. The drained area slightly decreased as some of the area excluded from registry since that area has been completely depreciated and drainage no more functioning. Source: Prof. dr. Antanas Maziliauskas, President of Lithuanian National Committee (LICID), 26 June 2010.
- 6 The fact that the drained area is more than the APC area is a matter of definition. In the Netherlands' case the drained area includes areas with other functions such as drainage of meadows and urban areas. Source: Dr. Pol (A.L.) Hakstege, Secretary/ Treasurer, Netherlands National Committee (NETHCID), 2 July 2010.

Sprinkler and Micro irrigated Area in Member Countries

(Arranged in descending order of the total sprinkler and micro irrigated area)

(Data provided by National Committees)

Sl. No.	Country	Total irrigated area	Sprinkler irrigation	Micro Irrigation	Total sprinkler and micro irrigation	Percentage of total irrigated area	Year of reporting
		Hectares					
1	USA	22.4	12,602,880	1,533,116	14,135,996	63.1	2008
2	India	60.85	3,044,940	1,897,280	4,942,220	8.1	2010
3	China	57.8	3,000,000	1,400,000	4,400,000	7.6	2009
4	Russia	4.5	3,500,000	20,000	3,520,000	78.2	2008
5	Spain	3.8	715,102	1,502,327	2,217,429	58.4	2007
6	Brazil	3.5	1,570,000	340,000	1,910,000	54.6	2004
7	France	2.6	1,379,800	103,300	1,483,100	57	2000
8	Italy	2.75	1,047,680	365,700	1,413,380	51.4	2000
9	South Africa	1.67	920,059	365,342	1,285,401	77	2007
10	Saudi Arabia	1.62	716,000	198,000	914,000	56.4	2004
11	Iran	8.7	460,000	270,000	730,000	8.4	2009
12	Australia	2.545	524,480	190,720	715,200	28.1	2000
13	Canada	0.87	683,029	6,034	689,063	79.2	2004
14	Ukraine	2.18	618,000	48,000	666,000	30.6	2009
15	Korea	1.12	200,000	400,000	600,000	53.6	2006
16	Mexico	6.2	400,000	200,000	600,000	9.7	1999
17	Egypt	3.42	450,000	104,000	554,000	16.2	2000
18	Germany	0.54	525,000	5,000	530,000	98.1	2005
19	Japan	2.53	430,000	60,000	490,000	19.4	2009
20	Romania	1.5	448,000	4,000	452,000	30.1	2008
21	Slovak Rep.	0.313	310,000	2,650	312,650	99.9	2000
22	Israel	0.231	60,000	170,000	230,000	99.6	2000
23	Morocco	1.65	189,750	8,250	198,000	12	2003
24	Hungary	0.22	185,000	7,000	192,000	87.3	2008
25	Syria	1.28	93,000	62,000	155,000	12.1	2000
26	Turkey	5.34	110,000	26,000	136,000	2.5	2009
27	Great Britain	0.11	105,000	6,000	111,000	100.0	2005
28	Finland	0.86	79,000	1,000	80,000	93	2009
29	Portugal	0.63	40,000	25,000	65,000	10.3	1999
30	Kazakhstan, Rep.	2.13	57,355	-	57,355	2.7	2006
31	Malawi	0.55	43,193	5,450	48,643	88.4	2000
32	Lithuania	0.45	44,518	-	44,518	98.9	2004
33	Chile	19	16,000	23,000	39,000	3.6	2006
34	Chinese Taipei	0.38	18,850	8,750	27,600	7.3	2009
35	Bulgaria	0.588	21,000	3,000	24,000	4.1	2008
36	Czech Rep.	0.024	11,000	5,000	16,000	66.6	2008
37	Philippines	1.52	7,175	6,635	13,810	0.9	2004
38	Poland	0.1	5,000	8,000	13,000	13	2008
39	Slovenia	0.09	8,072	733	8,805	97.8	2009
40	Malaysia	0.38	2,000	5,000	7,000	1.8	2009
41	Macedonia	0.55	5,000	1,000	6,000	10.9	2008
42	Estonia	0.01	500	500	1,000	100	2010
	Total	207.298	34,639,833	9,392,437	44,032,270	21.2	

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16.	VPH. Dr. Alain Vidal	WG-POVERTY	a.vidal@cgiar.org
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19.	Dr. Ragab Ragab	WG- CROP	rag@ceh.ac.uk
20.	VP Dr. Peter Kovalenko	WG-IDSST	pitkovalenko@gmail.com kovalenko@igim.org.ua
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22.	VPH Dr.-Ing. Eiko Lübke	ERWG	524@bmelv.bund.de
23.	VPH Dr. Karim Shiati	ASRWG	karim.shiati@yekom.com
24.	Dr. Luis Rendon Pimentel	AMRWG	luis.rendon@cna.gov.mx
25.	Dr. Adama Sangare	AFRWG	a.sangare@betico.net
26.	Mr. Mohammed Kazem Siahi	C-CONGR	mkazemsiahi@yahoo.com
27.	Mr. Ali Reza Salamat, Interim Chairman	WG-YPF	salamat_ir@yahoo.com
28.	Dr. G.R. Backeberg	TF-FIN	gerhardb@wrc.org.za
29.	Chairman to be appointed	TF-BIO-ENERGY	

Websites of Workbodies

Workbody	Website address
ERWG	http://www.erwg.icidonline.org
AFRWG	http://www.afrwg.icidonline.org
WG-YPF	http://www.wg-ypf.icidonline.org
C-CONGR	http://www.c-congr.icidonline.org
WG-TRUE	http://www.wg-true.icidonline.org
WG-CD	http://www.wg-cd.icidonline.org
WG-WATS	http://www.wg-wats.icidonline.org
WG-HIST	http://www.wg-hist.icidonline.org
WG-CAFM	http://www.wg-cafm.icidonline.org
WG-DRG	http://www.wg-drg.icidonline.org
WG-CROP	http://www.wg-crop.icidonline.org
WG-PQW	http://www.wg-pqw.icidonline.org
WG-ON-FARM	http://www.wg-on-farm.icidonline.org
WG-SDTA	http://www.wg-sdta.icidonline.org/
WG-CLIMATE	http://www.wg-climate.icidonline.org/
ASRWG	http://www.asrwg.icidonline.org/
WG-MIS	http://www.wg-mis.icidonline.org
ST-LCB	http://www.st-lcb.icidonline.org
WG-POVERTY	http://afeid.montpellier.cemagref.fr/Poverty/TF-POVERTY.htm

List of ICID Publications

Sl. No.	Publication Title	Year of Publication	List Price (US \$*)	For NCs Members & Booksellers' Price (US \$*)
(A) SPECIAL PUBLICATIONS				
1.	Synthesis Report: Topic 2.3 – Water and Food for Ending Poverty and Hunger, 5th World Water Forum**	2010	–	–
2.	CD-ROM Version of Multilingual Technical Dictionary	2010	60	30
3.	CD-ROM ICID@60**	2010	–	–
4.	Water Saving in Agriculture	2008	40	20
5.	Manual for Performance Evaluation of Sprinkler and Drip Irrigation Systems in Different Agro-Climatic Regions of the World	2008	40	20
6.	Micro Irrigation in Arid and Semi-Arid Regions – Guidelines for Planning and Design	2006	60	30
7.	Planning and Designing of Micro-Irrigation in Humid Regions	2005	20	10
8.	Manual on Planning of Structural Approaches to Flood Management	2005	40	20
9.	Application of Geosynthetics in Irrigation and Drainage Projects	2004	30	15
10.	The Indus Basin - History of Irrigation, Drainage and Flood Management	2004	140	70
11.	Danube Valley - History of Irrigation, Drainage and Flood Control	2004	150	75
12.	Historical Dams	2001	130	65
13.	CD-ROM Version of ICID Watsave Activities**	2001	–	–
14.	Canal Operation Simulation Models	2000	20	10
15.	ICID Survey on Funding of Operation, Maintenance and Management of Irrigation Projects	2000	30	15
16.	Remote Sensing and Geographic Information Systems in Irrigation and Drainage - Methodological Guide and Applications	2000	50	25
17.	Guidelines for Rehabilitation and Modernization of Irrigation Projects	1999	20	10
18.	Manual on Non-structural Approaches to Flood Management	1999	40	20
19.	Selection Criteria for Irrigation Systems	1995	30	7
20.	L'Automatisation Des Reseaux D'Irrigation En Canaux (F)	1994	28	7
21.	Criteres de Choix des Systemes D'irrigation (F)	1992	30	7
22.	A Guide to Acquiring a Computer System for the Management of Water Resources	1992	33	8
23.	Guidelines on The Construction of Horizontal Subsurface Drainage Systems	1990	32	8
24.	Improvement in Irrigation Management with Special Reference to Developing Countries, State-of-the-Art No.4	1987	25	2
25.	Design Practices for Covered Drains in an Agricultural Land Drainage System - A Worldwide Survey	1987	50	3
26.	Automatisation des Systemes d'Irrigation de Surface a Travers Le Monde (F)	1987	10	2
27.	Automated Farm Surface Irrigation Systems Worldwide	1986	10	2
28.	Guide 106 de la ciid - Developpement du Beton Bitumineux et de la Membrane Bitumineuse (F)	1985	13	2
29.	ICID Guidelines 106 - Development of Bitumen Concrete and Membranes	1985	13	2
30.	Design Practices of Open Drainage Channels in an Agricultural Land Drainage System – A Worldwide Survey	1984	25	2
31.	State-of-the-Art Irrigation, Drainage and Flood Control No. 3	1984	25	2

Sl. No.	Publication Title	Year of Publication	List Price (US \$*)	For NCs Members & Booksellers' Price (US \$*)
32.	State-of-the-Art Irrigation, Drainage and Flood Control No. 2	1981	22	2
33.	State-of-the-Art Irrigation, Drainage and Flood Control No.1	1978	22	2
34.	Manual of Flood Control Methods and Practices	1983	20	2
35.	Irrigation and Drainage in the World (Vol.1-1981, Vol.2-1982, Vol.3-1983)	1981-83	75	7
(B) TRANSACTIONS AND PROCEEDINGS				
36.	Transactions - 20th Congress on Irrigation and Drainage, Lahore, Pakistan, 2008 on the theme 'Participatory Irrigated Water Resource Management - From Concepts to Actions' and CD-ROM	2008	232	117
37.	Proceedings of the International Workshop on Water Saving Practices in Rice Paddy Cultivation, 14-15 September 2006, Malaysia Only CD-ROM	2006	20 10	10 5
38.	Proceedings of the International Workshop on Environmental Consequences of Irrigation with Poor Quality Waters: Sustainability, Management and Institutional, Water Resources, Health and Social Issues, September 2006, Malaysia Only CD-ROM	2006	30 20	15 10
39.	Proceedings of the International Workshop on Multiple Roles and Diversity of Irrigation Water, 14 September 2005', Beijing, China, 2006	2006	20	10
40.	Transactions - 19th Congress on Irrigation and Drainage, Beijing, China, 2005 on the theme "Use of Water and Land for Food Security and Environmental Sustainability" (Abstracts Vols. – 1A, 1B, General Reports – 1C, and Keynote Addresses – 1D and CD-ROMs) Only CD-ROMs	2005	450 250	225 125
41.	Transactions - 18th 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
42.	Transactions - 17th Congress on Irrigation and Drainage, Granada, Spain, 1999 on the theme "Water for Agriculture in the Next Millenium", Vols. 1a-1j (10 Volumes) and Vol. 2	1999	425	110
(C) OTHER PUBLICATIONS				
43.	Report of ICID Task Force for Least Developed Countries in Asia	2008	–	–
44.	CD-ROM version of Task Force Reports – An ICID Input to WWF 3 and 4	2007	10	5
45.	Sector Vision : Water for Food and Rural Development - Country Position Papers	2000	10	5
46.	Checklist to Assist Preparation of Small-Scale Irrigation Projects in Sub-Saharan Africa	1998	10	5
47.	Watsave Scenario	1997	10	5

* Postal charges extra; ** Handling and mailing charges

ICID Events 2010-11

61st IEC Meeting and 6th Asian Regional Conference, 10-16 October 2010, Yogyakarta, Indonesia

The theme of the conference is "Improvement of irrigation and drainage efficiency through participatory irrigation development and management under the small land holding conditions". For more information, please contact: The Indonesian National Committee of ICID (INACID), 8th Floor of the New Building, Directorate General of Water Resources (DGWR), Ministry of Public Works, Jalan Pattimura No. 20/ Perc. No.7, Kebayoran Baru, Jakarta Selatan, 12067, Indonesia. Tel: +62-021-723-0318, Fax: +62-021-723-0317, E-mail: secretariat@icid2010.org; inacid_indonesia@yahoo.co.id, Website: <http://www.icid2010.org>

24th European Regional Conference, 14-16 March 2011, Orleans, France

The title of the conference is "Groundwater resource: An essential resource to be saved and managed". Contact : Mr. Sami BOUARFA, Secrétaire Général, Association Française pour l'Etude des Irrigations et du Drainage (AFEID), 361, rue Jean-François Breton, F - 34090 - Montpellier, France. Tel: +33.4.67.04.63.16, Fax: +33.4.67.16.64.40, E-mail : afeid@cemagref.fr, Website : <http://www.groundwater-2011.net>

25th European Regional Conference, 16-20 May 2011, Groningen, The Netherlands

The title of the conference is "Integrated water management for multiple land use in flat coastal areas". For more details, please contact: Bert Toussaint, Chairman of Organizing Committee, Ministry of Transport, Public Works and Water Management, Rijkswaterstaat Centre for Corporate Services, P.O. Box 2232, 3500 GE Utrecht, The Netherlands. Tel: +31 6 207 91 372, E-mail: bert.toussaint@rws.nl or contact Pol Hakstege, Secretary, NETHCID, Tel: +31 88 7972316, E-mail: pol.hakstege@rws.nl, nethcid2011@rws.nl, Website: <http://www.nethcid.nl>.

21st International Congress on Irrigation and Drainage, 62nd IEC Meeting, and 8th International Micro irrigation Congress, 15-23 October 2011, Tehran, Iran

The theme of the 21st Congress is "Water productivity towards food security". For details, please contact: Dr. S.A. Assadollahi, Secretary General, Congress Secretary, Iranian National Committee on Irrigation and Drainage (IRNCID), No. 1, Shahrsaz Alley, Kargozar St., Zafar Ave., Tehran, Iran, Postal Code: 19198-34453. Tel: (+9821) 2225 7348 – 22250162, Fax: (+9821) 2227 2285, E-mail: irncid@gmail.com, icid2011@gmail.com, Website: <http://www.icid2011.org>. The Call for Papers can be downloaded from the website.

3rd African Regional Conference, 12-18 September 2011, Bamako, Mali

For details, please contact: Dr. Adama Sangare, President, Association Malienne des Irrigations et du Drainage (AMID), Au Modibo Keita, Im Sulla and Fils, BP 1840, BAMAKO, Mali. Tel: (223) 202 87521, Mobile No: (223) 6674 08 94, Fax: (223) 223 48 82, E-mail: a.sangare@betico.net; betico@betico.net.

OBITUARY

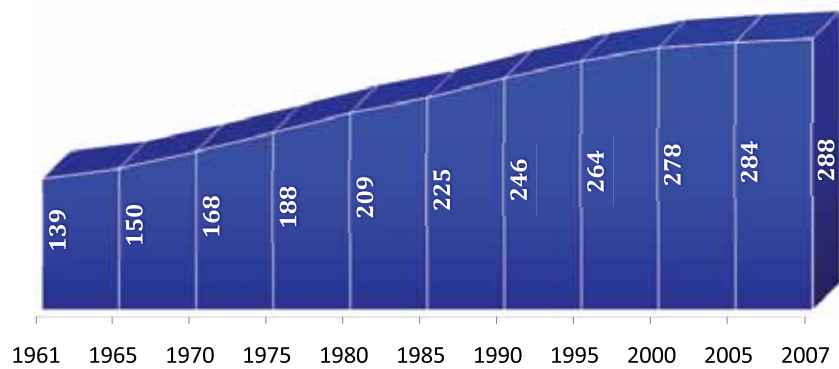


It is with deep regrets that we place on record the sad and untimely demise of Vice President Hon. Henri Tardieu on Friday, 02 April 2010 after a brief illness.

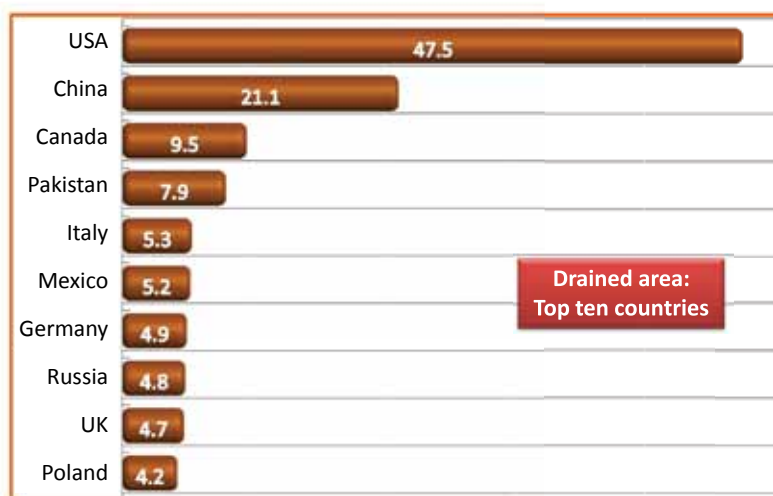
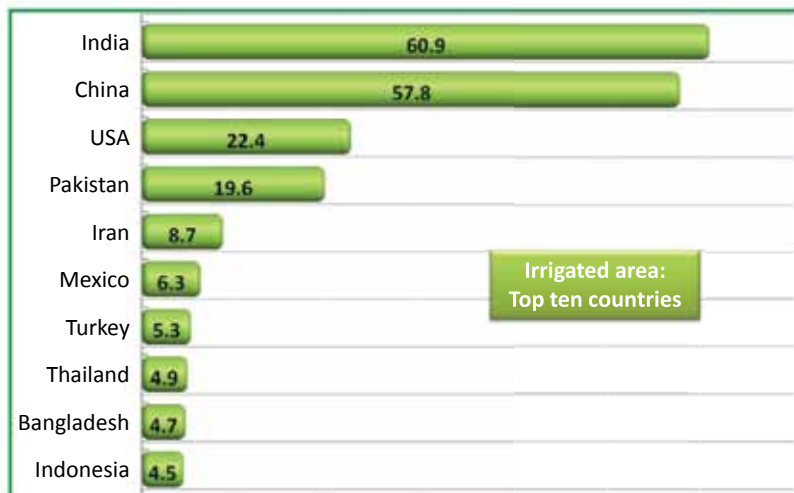
Mr. Tardieu was a strong supporter of the objects of ICID and indeed epitomized excellence in all his contributions to the works of Commission through various capacities such as the Vice Chairman of Permanent Committee for Technical Activities (PCTA), Vice Chairman of erstwhile ICID Working Group on Operation, Maintenance and Management of Irrigation and Drainage Projects (WG-OMM), and Strategy Theme Leader of Theme 'Basin' (a position he held admirably till the last IEC meeting in New Delhi in 2009). His valuable contributions as the Chairman of ICID Task Force 3 on "Developing Position Paper on Socio-Economic Sustainability of Services Provided by Irrigation, Drainage And Flood Control Schemes in Water Resources Sector" and as the Vice President of ICID during the term 1994-1997 are well-known. His significant and noteworthy recent contribution was during the World Water Forum-5 in Istanbul where ICID took over the role of forming a consortium to bring out a position paper on "Topic 2.3: Water and Food for ending poverty and hunger". Henri leaves an everlasting imprint of his inspiring personality on all the work of ICID.

At this time of great grief, the ICID fraternity records its profound sympathy and condolences to the bereaved family and to the members of the French National Committee. May his soul rest in peace!

Growth of global irrigated area (million ha)



(Source: FAOSTAT/ICID database)





ICID•CIID

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