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Minutes

**67th Meeting of International Executive Council (IEC)
and**

Pre-Council Meetings of Workbodies

8-12 November 2016, Chiang Mai, Thailand

International Commission on Irrigation and Drainage (ICID)

New Delhi, India

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Minutes of the 67th Meeting of International Executive Council (IEC) of ICID

8-12 November 2016, Chiang Mai, Thailand

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List of Abbreviations

ABID	Brazilian National Committee, ICID	ES	Executive Secretary
ADB	Asian Development Bank	ESO	European Standard Organisation
AERYD	Spanish Association on Irrigation and Drainage	ESTICID	ICID National Committee of Estonia
AFEID	Association Française pour l'Etude des Irrigations et du Drainage	ETCID	Ethiopian Committee on Irrigation & Drainage
AFGICID	Afghanistan National Committee, ICID	FAO	Food and Agricultural Organization
AFRWG	African Regional Working Group	FIJICID	Fiji National Committee on Irrigation and Drainage
AIF	Asian Irrigation Forum	FINCID	Finnish National Committee on Irrigation and Drainage
AMCOW	African Ministers' Council on Water	GECID	German National Committee of ICID
AMID	Association Malienne des Irrigations et du Drainage (Mali National Committee)	GFCS	Global Framework for Climate Services
AMRWG	American Regional Working Group	GRCID	Greek National Committee, ICID
ANAFIDE	Association Nationale des Améliorations Foncières de l'Irrigation, du Drainage et de l'Environnement	GUCID	Guyana National Committee, ICID
ANCID	Austrian National Committee on Irrigation and Drainage	GWP	Global Water Partnership
ANID	Association Nigérienne pour l'Irrigation et le Drainage	HIS	Heritage Irrigation Structures
ART	Article	Hon.	Honoraire
ARTF-CC	Asian Regional Task Force on Climate Change and Irrigation	HUCID	Hungarian National Committee, ICID
ASRWG	Asian Regional Working Group	IACID	Irrigation Australia's Committee on Irrigation & Drainage
ATID	L'Association Tchadienne pour l'Irrigation et le Drainage	IAL	Irrigation Australia Limited
AWC	Arab Water Council	ICBA	International Center for Biosaline Agriculture
AWF	African Wildlife Foundation	ICHARM	International Centre for Water Hazard and Risk Management
BANCID	Bangladesh National Committee of ICID	ICID	International Commission on Irrigation and Drainage
BPNA	Best Performing National Committee Award	ICID.UK	British National Committee of ICID
BPWA	Best Performing Workbody Award	ICOLD	International Commission on Large Dams
Cal Poly	California Polytechnic State University	ICRISAT	International Crops Research Institute for the Semi-Arid Tropics
C-CONGR	Committee on Congresses/Conferences	IDW	International Drainage Workshop
CERYD	Comité Español de Riegos y Drenajes	IEC	International Executive Council
CGIAR	Consultative Group on International Agricultural Research	IFAD	International Fund for Agricultural Development
CH	Conference Hall	IFPRI	International Food Policy Research Institute
CH-AGRAM	Swiss National Commission on Agro-Systems and Land Improvement	IGS	International Geosynthetics Society
CHICID	Comité Nacional Chileno de Riego y Drenaje	INACID	Indonesian National Committee of ICID
CIGR	International Commission of Agricultural Engineering	INAE	Indian National Academy of Engineering
CNCID	Chinese National Committee on Irrigation and Drainage	INCSW	Indian National Committee on Surface Water
CNRID	Romanian National Committee on Irrigation and Drainage	INWEPF	International Network for Water and Ecosystem in Paddy Fields
CO	Central Office	IPTRID	International Program for Technology Research in Irrigation and Drainage
CONIRD	National Congress on Irrigation and Drainage	IRCID	Irish National Committee on Irrigation and Drainage
C-PR&P	Committee on Public Relations and Publications	IRNCID	Iranian National Committee on Irrigation and Drainage
CPSP	Country Policy Support Program	IRQCID	Iraqi National Committee of Irrigation and Drainage
CPU	Council of Power Utilities	ISCID	Israeli National Committee, ICID
CR	Committee Room	ISO	International Organization for Standardization
CRCID	Croatian National Committee, ICID	ITAC	International Technical Advisory Committee
CTCID	ICID-Chinese Taipei Committee	ITAL-ICID	Comitato Nazionale Italiano ICID
CYCID	Cyprus National Committee, ICID	ITRC	Irrigation Training and Research Center
CZNC-ICID	Czech Committee of the International Commission on Irrigation and Drainage	IYPeF	ICID Young Professional's E-Forum (IYPeF)
DM	Direct Membership	IWALC	International Water-related Associations' Liaison Committee
DMASC	Direct Membership Administering Sub-Committee	IWMI	International Water Management Institute
DSI	General Directorate of State Hydraulic Works (Turkey)	IWP	Irrigation Water Productivity
EB-JOUR	ICID Journal Editorial Board	JICA	Japan International Cooperation Agency
ENCID	Egyptian National Committee on Irrigation and Drainage	JNC-ICID	Japanese National Committee, ICID
ERWG	European Regional Working Group	KAZCID	National Committee of Kazakhstan on Irrigation and Drainage
		KCID	Korean National Committee on Irrigation and Drainage
		KYRCID	Kyrgyz National Committee, ICID
		LinkedIn	Professional social networking website

LTCID	Lithuanian National Committee on Irrigation and Drainage	UNESCO	United Nations Educational, Scientific and Cultural Organization
MAKCID	Comite Nationale d'Irrigation et de Drenage de Macedonie	UNESCO-IHE	UNESCO-IHE Institute for Water Education
MANCID	Malaysian National Committee on Irrigation and Drainage	UNW-DPC	UN-Water Decade Programme on Capacity Development
MB	Management Board	URUCID	Uruguay National Committee, ICID
MDG	Millennium Development Goals	USCID	U.S. National Committee on Irrigation and Drainage
MH	Meeting Hall	UzNCID	Uzbekistan National Committee, ICID
MNCID	Myanmar National Committee on Irrigation and Drainage	VPH	Vice President Honoraire
MoU	Memorandum of Understanding	WATSAVE	Water Saving Activities / Award
MTD	Multilingual Technical Dictionary	WB	World Bank
MXCID	Mexican National Committee of International Commission on Irrigation and Drainage	WECS	World Energy Commission Secretariat
NC	National Committees/Committee	WG	Working Group
NENCID	Nepal National Committee, ICID	WG-CAFM	Working Group on Comprehensive Approaches to Flood Management
NETHCID	Netherlands National ICID Committee	WG-CLIMATE	Working Group on Global Climate Change and Agricultural Water Management
NGO	Non-Governmental Organization	WG-CDTE	Working Group on Capacity Development, Training and Education
NINCID	Nigerian National Committee on Irrigation and Drainage	WG-WATER & CROP	Working Group on Water and Crops
OECD	Organisation for Economic Co-operation and Development	WG-SDRG	Working Group on Sustainable Drainage
PANCID	Pakistan National Committee on Irrigation Drainage	WG-DROUGHT	Working Group on Water Management in Water Stressed Regions
PCSO	Permanent Committee on Strategy and Organization	WG-ENV	Working Group on Environment
PCTA	Permanent Committee for Technical Activities	WG-HIST	Working Group on History of Irrigation, Drainage and Flood Control
PFC	Permanent Finance Committee	WG-IDM	Working Group on Irrigation Development and Management
PH	President Honoraire	WG-IOA	Working Group on Institutional Aspects of Irrigation/ Drainage System Management
PNC-ICID	Philippine National Committee of the International Commission on Irrigation and Drainage	WG-IDSST	Working Group on Irrigation and Drainage in the States Under Socio-Economic Transformation
PNCID	Portuguese National Committee on Irrigation and Drainage	WG-SON-FARM	Working Group on Sustainable On-Farm Irrigation System Development
RIO+20	United Nations Conference on Sustainable Development	WG-POVERTY	Working Group on Role of Irrigation in Poverty Alleviation and Livelihoods
RUCID	National Committee of the Russian Federation on Irrigation and Drainage	WG-PQW	Working Group on Use of Poor Quality Water for Irrigation
SADC	Southern African Development Community	WG-SDTA	Working Group on Sustainable Development of Tidal Areas
SANCID	South African National Committee on Irrigation and Drainage	WG-TRUE	Working Group on Technology and Research Uptake and Exchange
SARIA	Southern African Regional Irrigation Association	WG-WATS	Working Group on Water Saving in Irrigated Areas
SG	Secretary General	ICID-IYPeF	ICID Young Irrigation Professional's e-Forum
SINCID	Slovenian National Committee on Irrigation and Drainage	WID Prize	World Irrigation and Drainage (WID) Prize
SLNICID	Sri Lanka National Committee, ICID	WIF	World Irrigation Forum
SC-E-THEMES	Sub-committee on Themes, Topics and Work Plans of the Future ICID Events	WMO	World Meteorological Organization
SYCID	Syrian National Committee of Irrigation and Drainage	WSH	World Water System Heritage
TANCID	Tanzania National Committee for Irrigation and Drainage	WUA	Water Users Association
TDS	Text Delivery Service	WWAP	World Water Assessment Programme
TF	Task Force	WWC	World Water Council
WG-BIO-ENERGY	Working Group on Water for Bio-Energy and Food	WWD	World Water Day
TF-VE	Task Force on Value Engineering	WWF	World Water Forum
TF-WWF8	Task Force to Guide ICID Inputs to World Water Forum 8	YUGCID	Yugoslav Association on Drainage and Irrigation
THAICID	Thai National Committee on Irrigation and Drainage	ZACID	Zambian National Committee, ICID
TUCID	Turkish National Committee, ICID		
UACID	Ukraine National Committee of ICID		
UIP	User Interface Platform (of GFCS)		
UN	United Nations		
UNCSD	United Nations Conference on Sustainable Development		
UNDP	United Nations Development Programme		



**Minutes of the 67th Meeting of
INTERNATIONAL EXECUTIVE COUNCIL (IEC) OF ICID
Chiang Mai, Thailand
Opening Plenary (First Session): 08 November 2016, 16:30 – 18:30 hours
Second Session: 12 November 2016, 09:00 – 12:30 hours
Third Session: 12 November 2016, 13:30 – 17:00 hours**

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.

Opening Plenary (First Session): 08 November 2016, 16:30 – 18:30 hours

IEC Minutes Item 1: Welcome and opening remarks by the President

1. President Dr. Saeed Nairizi opened the 67th Meeting of the International Executive Council, the general body and highest decision-making body of ICID on 08 November 2016 in Chiang Mai, Thailand. The meeting was organized in three sessions. The Opening Plenary was aimed at addressing all stakeholders, experts, representatives, partners and observers with the objective to communicate issues of general concern and also presenting ICID annual awards and recognitions. The opening plenary was attended by more than 500 delegates from 56 countries. They participated in the various working groups, task teams and committees in the following four days. The main session of IEC which was conducted in two sessions on 12th November took all decisions, based on the outcomes and recommendations of the work bodies and permanent committees. The list of participants who attended the main session of 67th IEC meeting is given in **Annex 1 (page 27)** and included representatives of 31 National Committees, 8 Office Bearers, past Presidents and Vice Presidents along with Observers.

2. Dr. Saeed Nairizi in his opening address to the Council welcomed the members. He asked the House to observe one minute silence in remembrance of late King of Royal Kingdom of Thailand, His Majesty Bhumibol Adulyadej, who passed away on 13 October 2016 and other departed souls from ICID fraternity. May their souls rest in peace!

3. President then proceeded with his opening remarks, welcoming Somalia to the Council. The President gave an overview of ICID's mission and important tasks before the Council to realize ICID's mission such as ICID Vision 2030 towards Agriculture Water Management (AWM), revitalizing the NCs of ICID, establishing Regional Nodes under IRPID Scheme, besides strengthening the existing partnership with various international organizations and the launching of the WSH Program. He also highlighted the Water-Food-Energy nexus in the backdrop of UN SDGs. He gave a brief account of international meetings attended by him and how these international platforms were useful for enhancing ICID's objectives. He also exhorted the NCs to avail the services of TSU that has been established at ICID Central Office. He thanked the ICID stakeholders and partners for their support and the host National Committee for the highly successful 2nd World Irrigation Forum (WIF2) that was concluded just prior to the plenary of the Council meeting.

4. President then took up the next item, and requested Chairs of PCTA and PCSO and SG to make their presentations.

IEC Minutes Item 2: Scoping out the issues to be addressed during the workbody meetings: Secretary General, Chair of PCTA and Chair of PCSO

5. Secretary General Er. Avinash C. Tyagi introduced the Agenda for the 67th Council meeting and drew the attention of the members to certain issues that need their special consideration during the meetings, viz. ICID Action Plan 2030 aimed to meet six organizational goals based on UN SDG; IRPID, WSH, and TSU programs. He also informed about the greater involvement of Young Professionals in ICID activities through ICID Young Professionals' e-Forum (IYPeF). He requested the Chairs and members of various workbodies to use the updated agenda notes with supplementary information uploaded on the website for the meetings of the Council, the Permanent Committees and Work Bodies. He introduced the concept of online election system. He urged the

members to use the DropBox share folder for easy dissemination/exchange of information among participants at ICID work body meetings, especially the Chairs and Secretaries for management of information flow.

6. VPH Felix Reinders, Chair, PCTA utilized the occasion to present how the workbodies under PCTA are organized under strategy themes led by Co-Theme Leaders, who are Vice Presidents of ICID. He again stressed the need to improve the functioning of ICID workbodies in achieving their mandates and the ways and means to make them more interesting. He emphasized the need for the presence of the Chairs of the workbodies, who are ex-officio members of PCTA, at the PCTA meeting in order to report the outcome of the meetings of their respective workbodies which would eventually help PCTA in making appropriate recommendations to the Council. He emphasized how the WGs could provide their input and realize the Action Plan 2030 which aimed to meet the needs of NCs and finally briefed on Knowledge Management.

7. VPH Dr. Huseyin Gundogdu, Chair, PCSO introduced the approach towards developing / formulating the Action Plan 2030 and exhorted the NCs to respond to the Questionnaires which were circulated to ascertain their needs and potential contributions towards the Action Plan, in view of the fact that only 18 out of 60 NCs responded to the Questionnaire. The NC response will also help Consultative Group to formulate a realistic assessment as part of the exercise undertaken by the Task Force to Revitalize ICID Membership Network. He pointed out that the Action Plan would be discussed at the WG meetings, Regional WG meetings and meetings of ICID NCs with Office Bearers to enable all stakeholders/members to provide their inputs to develop an inclusive Action Plan.

IEC Minutes Item 3: Presentation by the National Committees: Sri Lanka and Morocco

8. Eng. Janaki Meegastenna Secretary of Sri Lankan National Committee of ICID briefly presented the activities of SLNCID and went on to highlight the water resources management and water saving strategies, food production and challenges faced by Sri Lanka on account of climate change, and key project activities identified for Development of Basin Investment Plans (DBIP). Eng. Janaki's presentation on Sri Lankan scenario of irrigation management was highly useful to the participants. The detailed write-up and the PowerPoint presentation are available at <http://www.icid.org/prstn_slncid.pdf>.

9. Prof. Dr. Abdelhafid Debbarh, Vice President, ICID presented the National Committee presentation on behalf of l'ANAFIDE. He provided an insight into how the Moroccan NC is organized, by providing its objectives, organogram, membership structure, participation in ICID meetings etc. In the second part, VP Debbarh covered the irrigation scenario in Morocco – evolution, challenges and perspectives. He concluded the presentation by providing the lessons that can be learnt from Moroccan experience. The PowerPoint presentation made by VP Debbarh is available at <http://www.icid.org/prstn_anafide.pdf>.

IEC Minutes Item 4: Report on Presentation of WatSave Awards, Best Paper Award and recognition of HIS

IEC Minutes Item 4.1: Presentation of the Award for the Best Paper in the ICID Journal "Irrigation and Drainage"

10. PH Prof. Dr. Bart Schultz announced that out of the papers published in the ICID Journal "Irrigation and Drainage" during the year 2015, the Best Paper Award for 2016 was given to Ludivine Pradeleix, Philippe Roux, Sami Bouarfa, Bochra Jaouani, Zohra Lili-Chabaane and Veronique Bellon-Maurel for their paper titled "Environmental Impacts of Contrasted Groundwater Pumping Systems Assessed by Life Cycle Assessment Methodology: Contribution to the Water–Energy Nexus Study" that was published in the issue 64.1 of the Irrigation and Drainage Journal published as the flagship Journal of ICID by M/s Wiley and sons.

11. President handed over the award to the winners.

IEC Minutes Item 4.2: Presentation of WatSave Awards

12. PH Dr. Gao Zhanyi (China), Chair of the Panel of Judges constituted for the evaluation of the nominations received for WatSave Awards 2015, presented his report to the Council, introducing the works for which the Awards would be presented. He announced that the WatSave Award for Technology was being presented for "Innovation and Extension of Sprinkler and Micro Irrigation Technologies in China" to Prof. Li Jiusheng (China). He announced that the WatSave Award for Innovative Water Management was awarded for "Innovation, Implementation and Extension of the Water Saving Integrated Smart Farming – AWDI Technique in Thailand" to Mr. Va-Son Boonkird and Dr. Watchara Suiadee (Thailand) as the joint winners. Dr. Mohamed El-Hagarey (Egypt) was adjudged the winner of WatSave Young Professional Award for his work "Save Irrigation Water Using the Innovative Machine of Soil and Water Management for Rice Crop Cultivation (SWMR)" and Mr. Chandra Shekhar

H. Bhadsavle, Mr. Changdev K. Nirguda and Mr. Anil D. Nivalkar (India) were adjudged the joint winners of this year's WatSave Farmer Award for their work "Saguna Rice Technique – Zero Till, Conservation Agriculture".

13. President handed over the plaques to the winners while the cheques of US\$ 2000 each to the WatSave Award winners were presented by Mr. Satit Maneepai, VP, THAICID on behalf of THAICID. President thanked THAICID for the financial support for the WatSave Awards for 2016.

IEC Minutes Item 4.3: Recognition of Heritage Irrigation Structures (HIS)

14. Based on the recommendation of the Chair of the Panel of Judges VPH Dr Huseyin Gundogdu, the Council approved the inclusion of the identified heritage irrigation structures, as given in **Annex 2 (page 29)** in the ICID Register of 'Heritage Irrigation Structures'. Some of the representatives of organizations managing these structures received the plaques in person while the NCs were handed over 'Certificates' and 'Plaques' to the rest of the HIS.

Second Session: 12 November 2016, 09:00 – 13:15 hours

IEC Minutes Item 5: Action Taken Report on the decisions of 66th IEC and the decisions taken by the Management Board

15. The Council noted that the actions have been either initiated or completed on all the decisions taken by the 66th IEC during the year. The Secretary General presented to the Council, the decisions taken by the Management Board on behalf of IEC in accordance with Article 8.1 of the ICID Constitution and Clause 3.9.2 of ICID By-laws. The Council endorsed the decisions of MB as given in **Annex 3 (page 30)**.

IEC Minutes Item 6: Report by the Secretary General

16. Secretary General Er. Avinash C. Tyagi presented the Annual Report 2015-16, (which had already been sent to the NCs) bringing out physical and financial progress on activities undertaken during the period from April 2016 till the date of the Council meeting in Chiang Mai, including the report on cooperation and collaboration with various international organizations. SG informed that presently, CO was sending two hard copies of the AR to all the NCs while the soft copy of AR is made available on the website. He urged the NCs to disseminate the AR to the relevant authorities, in order to inform them of the role being played by ICID as a network and the NCs own contribution. He also informed that the Ambassadors of the member countries in New Delhi are also being provided one copy of the AR starting this year which has been appreciated by some of the Missions. Members appreciated the contents and get up of the AR and suggested that a brief and lighter version of the AR should be prepared in the form of Executive Summary which can be widely circulated and shared by NCs with their stakeholders.

17. Secretary General informed the Council about the increased usage of internet in organizing virtual meetings of workbodies, management board, various technical committees, task forces, etc. SG urged workbody chairs and members to utilize this platform for organizing meetings in between IECs to take stock of their activities. SG then briefed the Council about the publications, including periodicals and e-publications, brought out by ICID and requested the members to contribute articles from their respective countries to share their work/activities. He urged WGs to share the technical outcomes of their meetings in the form of short articles for ICID News, which addressed multi-disciplinary stakeholders and encourage researchers in sharing their findings by making use of this platform and ensure inter-disciplinary exchange in AWM.

18. SG gave a brief account on ICID Website and ILMS. He urged the NCs to encourage the companies and service providers in their countries avail I&D Products and Services Directory which can provide their products and services, wider publicity absolutely free. This service can serve as a means to provide the current and potential private businesses in AWM sector benefits from the membership of NC.

19. SG informed that during the period under report, ICID closely collaborated with FAO, IWMI and ADB in addition to those reported in Annual Report 2015-16 to fulfil common objectives. The Council appreciated the support of WMO and African Asian Rural Development Organization (AARDO) in supporting the participation of Young Professionals in various activities of ICID.

IEC Minutes Item 7: Presentation on Strategy Theme "On-Farm"

20. Co-Theme Leader of Strategy Theme "On-Farm", VP Bong Hoon Lee (Korea) reviewed the activities of Working Groups under the Theme "On-Farm", analyzing the work undertaken by the work bodies under respective strategy themes and identifying gaps, in fulfilling the objectives of ICID relating to that theme as well as exploring/using interconnections with other themes. The presentation undertook creative analysis of functioning of

ICID workbodies, their success in achieving mandates and invigorating them within the framework of ICID mission and objectives.

21. VP Lee emphasized that the role of working groups under the theme “On-Farm” viz. WG-SON-FARM, WG-CROP and WG-PQW was of particular importance. Some of the points highlighted and recommendations made in the presentation are as follows:

- (a) To enhance water and irrigation efficiency, there is need for close cooperation among various organizations and in this direction active participation of various organizations in ICID WGs is recommended.
- (b) ICID should act as an open platform to facilitate communication among all relevant stakeholders, and NCs should encourage participation of various organizations engaged in AWM within their countries and in their region.
- (c) The accumulated knowledge, experience, expertise and technologies should be shared among NCs through various publications being brought out by ICID and other organizations. In this connection NCs can consider utilizing the services of ‘Technical Support Unit’ to realize the application of technology and experiences to the field.
- (d) ICID should foster YPs as future leaders and undertake regular capacity-development program for them. In order to achieve sustainable, stable, and long-term capacity-development of YPs, ICID may seek support of the donor partners and also designate few regional training institutes from among members.
- (e) For financial sustainability of NCs, active promotion of private sector’s participation need to be promoted by ICID as well as NCs. The private companies should be encouraged to become ‘Direct Members’ of ICID so that ICID could, support some NCs financially and new guideline may be developed, if needed for the purpose. Private companies may not hesitate in participating in ICID activities if they can find the business opportunities on the worldwide platform of water (irrigation and drainage) through ICID international network. ICID needs to consider the proper way to derive their active participation.

22. The presentation made by the strategy theme Co-Leader is available at **Annex 4 (page 31)** and PowerPoint presentation is available at http://www.icid.org/prstn_onfarm_vp_bglee.pdf.

IEC Minutes Item 8: International Research Program for Irrigation and Drainage Scheme

23. VPH Felix Reinders, Chair, AC-IRPID presented the revised IRPID Scheme, giving its vision, mission, objectives, organizational structure, coordination mechanism etc. based on the suggestions received during the meeting of the Management Board of Regional Node – Tehran held in August 2016 and approval of the ICID Management Board. He sought the Council’s approval to the revised IRPID scheme which envisages to have proper regional balance at global level in fostering collaborative activities amongst the NCs within that region by affiliating NCs to the identified regional node with similar AWM challenges. After deliberations, the Council adopted the revised IRPID Scheme (**Annex R3.1, page 23**) vide **Resolution IEC-3/67 (page 11)**

IEC Minutes Item 9: World Water System Heritage (WSH) Program

24. Secretary General apprised the Council about the World Water System Heritage (WSH) program that is set to be launched at the 60th Board of Governors (BoG) meeting of World Water Council (WWC) in Marseille, France in November 2016 as a joint member initiative with the World Water Council. He briefed the Council about its genesis and aims and objectives as well as organizational structure. He informed the Council that ICID Central Office has been designated as the Secretariat for WSH Program and its operational modalities are still being worked out. The Council approved the arrangement for the Central Office of ICID to function as WSH Secretariat.

IEC Minutes Item 10: Reports by the Chairs of Permanent Committees

IEC Minutes Item 10.1: Permanent Finance Committee

25. VPH Laurie Tollefson, Chairman, PFC presented to the Council, the Report of the 37th meeting of the PFC held on 10 November 2016 at Chiang Mai, Thailand. The Report of PFC is given at **Appendix I (page 41)**.

26. The Chair of PFC, who is also the Chair of TF to Review the Membership Structure and Annual Membership Subscription Formulae (TF-AM), informed that an in-depth study of long term financial sustainability of ICID needs to be undertaken considering various income and expenditure components. Therefore, the TF had authorized SG to engage a consultant to develop a resource mobilization strategy for ICID and its long-term financial sustainability. TF expects to finalize its report by April/May 2017.

IEC Minutes Item 10.2: Permanent Committee on Strategy and Organization

27. VPH Dr. Huseyin Gundogdu, Chairman, PCSO presented to the Council, the Report of the 27th meeting of PCSO held on 10 November 2016 at Chiang Mai, Thailand. The Report of PCSO is given at **Appendix II (page 47)**. Among other recommendations of PCSO, the Council approved the course of action proposed for the finalization of ICID Action Plan 2030 which is dealt under item 11 of the IEC minutes.

28. The Council, on the recommendation of the President, approved the nomination of VP Bong Hoon Lee of Korea, as Chair of PCSO, in compliance with ICID By-laws 3.9.5(c) as the present Chair VPH Huseyin will be completing his term of four years as member of PCSO with the conclusion of Chiang Mai meetings.

29. The Council while considering broad recommendations of TF-REV based on the recommendations of PCSO, approved the TF's suggestion of dual membership for National Committee members in the National Committee as well as in ICID with a single subscription and requested Secretary General to come up with appropriate amendments in ICID Constitution and By-laws consequent upon this decision and present the same in the 2017 meeting of the Council in Mexico City.

IEC Minutes Item 10.3: Permanent Committee for Technical Activities

30. VPH Felix Reinders, Chairman, PCTA presented to the Council, the Report of the 36th meeting of PCTA held on 11 November 2016 at Chiang Mai, Thailand. The Report of PCTA is given at **Appendix III (page 51)**. The Council approved the nomination of VP Dr. Ding Kunlun, as Chair of PCTA in accordance with ICID By-law 3.9.4(b).

31. The Council recalled that the registration fee structure for various ICID events has been constant for last five years and the financial feasibility of the events for the host NCs has to be kept in mind. SG also clarified that the special contributions being made by the host NCs to the ICID budget were being ploughed into supporting the activities of the ICID events.

IEC Minutes Item 10.4: Discussions and Decisions on the Recommendations of the Permanent Committees

32. The Council deliberated on the recommendations and Reports of PFC, PCSO and PCTA together in totality. The Council adopted resolutions on the Financial Matters of ICID presented through PFC Report, and on the Organizational and Technical Matters of ICID presented through the PCSO and PCTA Reports, placed at **Resolution IEC-1/67 (page 9)** and **Resolution IEC-2/67 (page 10)**, respectively.

33. Based on the PFC report presented by Chair VPH Tollefson, the Council approved the admission of Somalia National Committee on Irrigation and Drainage (SONCID) as a member of ICID. Secretary General of SONCID Mr Abdullahi Hassan Hussein thanked the Council for admitting Somalia as the newest member and FAO for their support.

34. The Council approved the Audited Accounts of ICID for FY 2015-16 as given in **Annex R1.1 (page 13)**, and the Revised Budget for FY 2016-17 and the Budget for FY 2017-18 as given in **Annex R1.2 (page 17)**.

35. The Council approved Registration Fee Structure for the already approved events 13th International Drainage Workshop, Ahvaz City, Khuzestan Province, Iran, 4-7 March 2017; 68th IEC and 23rd Congress on Irrigation and Drainage, Mexico City, Mexico, 8-14 October 2017; 8th Asian Regional Conference, Kathmandu, Nepal, 2018; 69th IEC & 5th American Regional Conference, Saskatoon, Canada, 12-17 August 2018; and 9th International Micro Irrigation Conference, Aurangabad, India, 2019 as given in **Annex R1.3 (page 18)**. The registration fee structure for the forthcoming events that have been approved later during the meeting under Agenda Item 15 was also approved and presented in **Annex R1.3**.

36. The Council approved the membership changes of various workbodies under PCSO and PCTA, including the changes in the membership of PCTA as given in **Annex 5 (page 33)**. The consequent consolidated membership of all workbodies is available at <http://www.icid.org/mbrship_cntrywise.pdf> both format – workbody-wise and country-wise.

37. VPH Ragab Ragab raised the issue of non-participation of members in the WG meetings which in his opinion was mainly due to too many parallel sessions going on. He also suggested that one half-day session should be used for taking the participants for sight-seeing. Chair PCTA drew the attention of the Council to the need for making the WGs sessions more interesting and completing the routine works through WebEx. He pointed out that some of the WGs were having very good attendance. He drew the attention of the Council to the report of ST leader VP Charlotte presented to PCTA.

38. VPH Ragab Ragab also pointed out that people were unable to join ICID meetings due to high registration fee and the long duration of ICID events. It was clarified that the registration fee for the ICID events is largely within the purview of the Host NCs as they have also to ensure that the event is financially viable. Dr Ragab suggested two tier system of registration fee structure. It was informed that Task Force dealing with the issue of rate of subscription and the long-term financial sustainability of ICID was already dealing with such issues. After deliberations, the Council decided to constitute a Task Team (TT) on Registration Fee for ICID Events under the Chairmanship of Chair of PFC VPH Laurie Tollefson. The other members of the team would be Chairs of the Regional Working Groups, representative of TF-REV, representatives of the host NCs that have and will be organizing events between 2014 and 2019. In addition, VPH Ragab Ragab, VP Debbbarh and VPH Dr Adama Sangare were specially invited. The TT will find ways and means to optimize costs and benefits of participation and organization of ICID Events. The TT will submit its report to PFC in Mexico.

39. The Council noted the suggestion made by PCTA to allow more than one member from one NC in a WGs. The Council approved the setting up of a Sub-committee consisting of Strategy Theme Leaders and the Secretary General to investigate the structure, scheduling of meetings and membership of the WGs. The changes, if required to taken up in the constitution or by-laws would be presented at the next meeting of Council.

40. Based on the report of PCTA, the Council approved the revised composition and mandate for SC-E-THEMES. The Council also approved the permanent mechanism suggested by SC-E-THEMES and recommended by PCTA, for formulating themes and topics for various ICID events as given in **Annex R2.1 (page 19)**.

41. The Council approved the theme - 'Innovative and Sustainable Agri-Water Management: Adapting to a Variable and Changing Climate' and topics - (a) Competing Water Demands, (b) Resilient Agriculture and (c) Irrigation in Perspective, for the American Regional Conference to be held in Saskatoon during the 69th IEC Meeting in 2018.

42. As per the recommendations of PCTA which considered the scoping documents for establishment of new workbodies, the Council approved the setting up of two new workbodies, viz. (i) TF for Updating and Maintenance of Multilingual Technical Dictionary (TF-MTD), (ii) WG on Water for Bio-Fuel and Food (WG-BIO-FUEL). The mandates for these newly established and re-constituted workbodies are given at **Annex R2.2 (page 20)**.

43. The Council noted that following WGs are in the process of finalizing/have finalized their revised mandates: (i) WG on Irrigation and Drainage in States Under Socio-Economic Transformation (WG-IDSST), (ii) WG on Sustainable Development of Tidal Areas (WG-SDTA); (iii) WG on Use of Poor Quality Water for Irrigation (WG-PQW); (iv) WG on History of Irrigation, Drainage and Flood Control (WG-HIST); (v) WG on Comprehensive Approaches to Flood Management (WG-CAFM) as WG on Adaptive Flood Management (WG-AFM); (vi) WG-DROUGHT as WG on 'Managing Water Scarcity under Conflicting Demands (WG-MWSCD) ; and (vii) WG on Value Engineering (WG-VE). The Council recalled the concern raised by members from time to time about the poor attendance of members in certain WGs and the need for limiting the number of parallel meetings of WGs. It therefore desired that the revised Scoping Documents of the WGs with revised mandates or extension of the WGs with revised mandates need to be circulated among the NCs to ascertain their interest in the establishment/ continuation of these WGs.

44. Based on the recommendation of PCTA, the Council approved the setting up of a High Level Advisory Group on "Partnerships for Agriculture Water Management" and also to establish a dedicated Task Force to provide support to the High Level Advisory Group as the Council felt the need to adequately recognize the recommendations made by the Ministerial Roundtable on 'Delivering SDG's through Agriculture Water Management' held on 06 November 2016 as given in **Annex R2.3, (page 21)**.

Third Session: 12 November 2016, 14:00 – 18:30 hours

IEC Minutes Item 11: ICID Vision 2030 – To Develop an Action Plan 2030

45. VPH Dr. Huseyin Gundogdu, Convenor, Consultative Group (CG) presented the Draft Report on ICID Action Plan 2030. He informed the Council that the focus of the ICID Action Plan 2030 is to provide support to NCs in their contribution to fulfil the Sustainable Development Goals (SDGs) related to Agriculture Water Management (AWM). He also emphasized that inputs from ICID Work Bodies to identify actions to achieve six Organizational Goals in their area of activities is also essential for developing the Action Plan 2030.

46. With this aim, CG had formulated and circulated two Questionnaires – one to ascertain the needs of NCs and other to identify actions from WGs in their realm of activities to support the needs of NCs– for circulation among NCs and WBs. Inputs had been received from 21 NCs and five WBs. Based on the information gathered, the CG

had prepared a Draft Report on ICID Action Plan 2030 which was circulated among the National Committees on 10 October 2016 (See Annex S4, page 47 of 67th IEC Agenda). The Council noted that the Draft Action Plan had been presented and discussed at different work body meetings during the meeting. Some of the WGs had also discussed and provided inputs. However, after the discussions during the meeting a number of WGs as well as NCs had expressed the need to provide them time to give their inputs.

47. In view of the above, the Council endorsed the following time line suggested by the convener of CG for finalizing the ICID Action Plan 2030:

- (a) 15th January 2017 New inputs from NC and WGs
- (b) 1st March 2017 CG to finalise 2nd draft Action Plan 2030 and send to MB approval
- (c) 15 March 2017 Approval by MB of 2nd draft Action Plan
- (d) 1st April 2017 Send approved 2nd draft Action Plan to all NCs for their comments and suggestion, if any within 45 days
- (e) 15 May 2017 Finalization and approval of revised Action Plan 2030 incorporating suggestions and comments of NCs and its approval by MB

IEC Minutes Item 12: Task Force on Revitalization of ICID Network

48. In pursuance of the Council's decision at Montpellier IEC meeting, a Task Force has been set up to study the reasons responsible for the gradual withdrawals of National Committees (NCs) from Europe from the membership of ICID and other issues faced by the NCs, with a broadened scope, under the chairmanship of Chair, PCSO. The inputs received from the questionnaire sent by CG for ICID Action Plan 2030 were used in analyzing the situation in various NCs and the kind of support they needed. Vice Presidents of ICID have been involved in the process to undertake specific issues related to each sub-region allocated to them.

49. The Chair of the TF, VPH Dr. Huseyin Gundogdu presented the report of TF, also presented earlier during various work body meetings, to the Council together with the broad recommendations as given in **Annex 6 (page 40)** which have been accepted by the Council. The Chair sought more time, as the information gathered is not sufficient to complete its mandate, and TF expects to finalize the report by May 2017. The Council asked the TF-REV to present its final report at the 68th IEC meeting in Mexico City in 2017. The Council requested Secretary General to come up with the required changes in ICID Bye-Laws, where required, in order to accommodate the recommendations of the Task Force.

IEC Minutes Item 13: Task Force on Annual Membership Subscription Formulae

50. As per the decision of 66th Council meeting in Montpellier last year, a Task Force to Review the Membership Structure and Annual Membership Subscription Formulae has been set up under the chairmanship of Chair, PFC. The TF presented an interim report under item 11 of PFC meeting on 10 November 2016 and informed the Council that it would complete its task by May 2017.

IEC Minutes Item 14: Technical Support Unit – An Update

51. The establishment of TSU has been notified to NCs on 4 January 2016 vide Notification No.4 of 2016 (see Annex 3, page 11 of 67th IEC Agenda), giving its objective, scope, funding and mechanism. One of the unique features of the TSU is that it will be a unit with a nucleus located in the Central Office but mainly running on the voluntary contributions from the national experts. Following the notification, the NCs have been requested to nominate experts, giving the terms of reference for engaging them as part of TSU program in the prescribed application form (see Annex 4, page 13 of 67th IEC Agenda). VP Lee, KCID informed Council that KCID is in the process of deputing one expert to TSU for a period of six months or so.

52. The Council was apprised of the study undertaken by the fact finding mission to DPRK "**To assess capacity development needs for better agriculture water management in DPRK**" so as to support the capacity development in the country for better agriculture water management. This study has been undertaken in response to the request of Embassy of Democratic People's Republic of Korea (DPR Korea) on behalf of their Government.

53. The Council appreciated the study undertaken by the fact finding mission and exhorted the NCs to nominate experts for engaging them under TSU Program in order to operationalize it.

IEC Minutes Item 15: Status of Future ICID Conferences / Congresses / Forums

54. The IEC has so far approved the venues of the following future major ICID events:

- (a) 13th International Drainage Workshop, Ahvaz City, Khuzestan Province, Iran, 4-7 March 2017
- (b) 68th IEC and 23rd Congress on Irrigation and Drainage, Mexico City, Mexico, 8-14 October 2017
- (c) 8th Asian Regional Conference, Kathmandu, Nepal, 2018
- (d) 69th IEC & 5th American Regional Conference, Saskatoon, Canada, 12-17 August 2018
- (e) 9th International Micro Irrigation Conference, Aurangabad, India, 2019 / 2020

55. Representative of IRNCID, MXCID, NENCID, CANCID and INCSW presented the status of preparations for holding the above events.

56. The Council thereafter considered the proposals presented by the NCs of Indonesia and Iran for 70th IEC and 3rd World Irrigation Forum in 2019. The Council decided to take a secret ballot on the selection of venue which resulted in a tie. Later based on the draw of lots, the Council declared Bali, Indonesia as the venue for hosting 70th IEC and WIF3 in 2019.

57. The representative of Irrigation Australia Ltd. presented their bid for hosting 71st IEC and 24th ICD Congress on Irrigation and Drainage in Sydney, Australia in September 2020. Based on their presentation, the Council approved the bid by Australian NC to host the 71st IEC and 24th ICID Congress in Sydney, Australia.

IEC Minutes Item 16: Election of the Office-Bearers 2016-2019

58. The Council was informed that as per Article 7.2.4 of the ICID Constitution, the 3-year term of Office (2013-2016) of Vice Presidents Dr. Ir. Basuki Hadimoeljono (Indonesia), Mr. Kadhim Mohsin Ahmed (Iraq) and Er. A.B. Pandya (India) would conclude by the end of the 67th IEC and its adjunct study tours.

59. The Council noted that in response to the Central Office's circular inviting nominations for the positions of Vice President for the term 2016-2019, four nominations were received in the Central Office – Dr. Brian T. Wahlin (USA), Mr. Waseem Nazir (Pakistan), Dr. Irene G. Bondarik (Russia) and Mr. Madhav Belbase (Nepal) – by due date of 12 July 2016.

60. Since USCID has withdrawn the candidature of Dr. Brian T. Wahlin, the Council decided to hold the voting to determine the seniority of the Vice Presidents in accordance with ICID By-laws 2.8. Based on the voting, Dr. Irene G. Bondarik (Russia), Mr. Waseem Nazir (Pakistan) and Mr. Madhav Belbase (Nepal) have been declared as Vice Presidents elected in the order of their seniority for the term 2016-2019. As per Article 7.2.4, of ICID Constitution, the term of VPs elected at the 67th IEC meeting shall begin at the conclusion of the present Council meeting and its appurtenant study tours and expire at the conclusion of the 70th Council meeting and its appurtenant study tours in the year 2019.

IEC Minutes Item 17: Presentation of ICID Plaques to Retiring Vice Presidents and Chairs of Workbodies

IEC Agenda Item 17.1: Retiring Vice Presidents

61. Citation plaques were presented to three retiring Vice Presidents -- Dr. Ir. Basuki Hadimoeljono (Indonesia), Mr. Kadhim Mohsin Ahmed (Iraq) and Er. A.B. Pandya (India) – for their services to further ICID activities during their tenure 2013-2016. The plaques have been received by their respective NC representatives.

IEC Agenda Item 17.2: Retiring Chairs of Workbodies

62. The retiring Chairpersons of Workbodies -- VPH Felix B. Reinders (South Africa), Chairman, PCTA (2011-2016); VPH Dr. Hüseyin Gündoğdu (Turkey), Chairman, PCSO (2014-2016) and Dr. Sylvain Perret (France), Chairman, WG-ENV (2011-2016) – were honored with the presentation of citation plaques for their commendable guidance to the activities of the concerned workbodies.

IEC Minutes Item 18: Any other business

63. The President declared the 67th IEC meeting closed.



Resolution IEC-1/67 [IEC Item 10.4, Para 32]**INTERNATIONAL EXECUTIVE COUNCIL****RESOLUTION IEC-1/67: FINANCIAL MATTERS OF ICID****THE Council**

Accepting the Report of the Chair of the Permanent Finance Committee;

Noting further the report of the Statutory Auditors M/s. P.K. Chopra and Company; and

Considering the recommendation of the Management Board;

Decides Unanimously

1. To approve the nominations of Mr. Ali Reza Salaamat (Iran) as member and Mr. Hazim Ibrahim Othman Mohammed (Iraq) as provisional member of PFC.
2. That the following persons, institutions and companies accorded the provisional membership by the Direct Membership Administering Sub-Committee be admitted as members of ICID for the periods for which they have paid the subscription.
 - (i) Dr. Ashish Pandey (India)
 - (ii) Prof. Umesh C. Chauhebe (India)
 - (iii) Asian Development Bank (Philippines)
 - (iv) Dr. R. Mahesh (India)
 - (v) Central Board of Irrigation and Power (India)
3. That the National Committee of Czech Republic be declared as “Associate Member” from 1 January 2017 (if they do not clear their dues by 31st December 2016) as they have failed to contribute ICID subscription for last three years in accordance with By-law 13.2.
4. The National Committee with arrears of more than 2 years, viz. Brazil, Italy, Malaysia, Nigeria, Saudi Arabia, Spain and Zimbabwe be debarred from holding office of VP or be a member of Workbody from 1st Jan 2017, if they do not clear their dues by that date, in accordance with By-law 13.1.
5. To approve admission of Somalia as a member of ICID in accordance with ICID By-law 9 governing application for membership.
6. To approve the Audited Accounts of ICID for the Financial Year 2015-16 as given in **Annex R1.1, page 13**.
7. To approve the Revised Budget of ICID for the Financial Year 2016-17 and the Budget for the financial year 2017-18 as given in **Annex R1.2, page 17**.
8. To approve the Registration Fee Structure for the forthcoming ICID events as given in **Annex R1.3, page18**.

Appreciates

1. The NC of France for contributing the appropriate share of the registration fee for the 26th ERC and 66th IEC to the ICID Budget.
2. The Ministry of Water Resources, People’s Republic of China and Chinese National Committee of ICID (CNCID) for providing a grant of US\$ 63,480 for carrying out various ICID activities during the Financial Year 2015-16.
3. The Korean National Committee of ICID (KCID), for providing financial support of US\$ 15,000 for various activities of the Commission.
4. KCID, World Meteorological Organization (WMO) and African Asian Rural Development Organization (AARDO) for supporting participation of Young Professional in various activities of ICID.



Resolution IEC-2/67 [IEC Item 10.4, Para 32]

INTERNATIONAL EXECUTIVE COUNCIL**RESOLUTION IEC-2/67: ORGANISATIONAL AND TECHNICAL MATTERS OF ICID****THE Council**

Accepting the reports and recommendations of the Chairs of the Permanent Committees on Strategy & Organization and Technical Activities; and

Considering the endorsement by the Management Board;

Decides unanimously

1. To approve the setting up of a permanent mechanism to select themes for various ICID events such as triennial International Congresses on Irrigation and Drainage, triennial World Irrigation Forums, International Micro Irrigation Conferences, International Drainage Workshops and Regional Conferences as given at **Annex R2.1, page 19**.
2. To approve hosting of the Secretariat for World Water System Heritage program being implemented in collaboration with World Water Council and other international partners.
3. To approve the new/existing workbodies with revised mandate (**Annex R2.2, page 20**) on the topics:
 - (i) Task Force for Updating and Maintenance of Multilingual Technical Dictionary (TF-MTD)
 - (ii) Working Group on Water for Bio-Fuel and Food (WG-Bio-Fuel)
 - (iii) Working Group on Irrigation Development and Management (WG-IDM)
4. To approve the closure of WG-DROUGHT and WG-CAFM.
5. To extend the tenures of WGs on TF-REV, WG-IDSST, WG-SDTA, WG-HIST and WG-PQW for one more year.
6. To approve the proposal of INACID to host 3rd World Irrigation Forum and 70th IEC Meeting in Bali, Indonesia in October 2019; and the proposal of IACID to host 24th ICID Congress and 71st IEC meeting in September 2020, Sydney, Australia.
7. To endorse the setting up of High Level Advisory Group as per the declaration of Ministers' Meeting held during the Second World Irrigation Forum, from 6-8 November 2016 in Chiang Mai, Thailand for "Delivering SDGs through agriculture water management" (**Annex R2.3, page 21**).
8. To approve the setting up of a dedicated Task Force to provide support to the High Level Advisory Group and requests Management Board to take follow up action.

Requests

1. National Committees take full advantage of its establishment of the Technical Support Unit (TSU)
2. National Committees to contribute towards the Fund created for undertaking activities of TSU and encourages NCs to depute volunteers from time to time to undertake the activities of TSU.
3. Secretary General to consolidate Guidelines for the organization of World Irrigation Forum.

Appreciates

4. The Korean National Committee of ICID (KCID), to support the activity of TSU and providing funds for undertaking the activity in Democratic People's Republic of Korea.



Resolution IEC-3/67 [IEC Item 8, Para 23]

INTERNATIONAL EXECUTIVE COUNCIL

RESOLUTION IEC-3/67: REVISED INTERNATIONAL RESEARCH PROGRAM FOR IRRIGATION AND DRAINAGE (IRPID) SCHEME

THE Council

Considering the Report of the Advisory Committee on IRPID (AC-IRPID) set up by the MB as part of the IRPID Scheme notified in April 2016 and in view of the inputs received from the regional nodes of IRPID,

Noting the endorsement of the Management Board and recommendations of PCSO and PCTA,

Decides unanimously

1. To adopt the Scheme for International Research Program for Irrigation and Drainage (IRPID) as given in **Annex R3.1, page 23.**



INDEPENDENT AUDITOR'S REPORT

P.K. Chopra & Company
Chartered Accountants (Registered)

To

The Members of the Governing Council
International Commission on Irrigation and Drainage (ICID)
New Delhi

Report on Financial Statement

We have audited the accompanying financial statements of **International Commission on Irrigation and Drainage (ICID)** ("**the society**"- **PAN AAAAI1084P**), which comprises the Balance Sheet as at 31st March, 2016, Income and Expenditure and Receipts and Payments for the year then ended, and a summary of significant accounting policies and other explanatory information.

Management Responsibility for the Financial Statement

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance and receipt and payments, of the society in accordance with accounting principles generally accepted in India for Not-for-Profit Organizations. This responsibility also includes maintenance of adequate accounting records in accordance with the provisions of the Societies Registration Act, 1860 for safeguarding of the assets of the Company and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

Further we report that, In our opinion and to the best of our information and according to the explanations given to us, the aforesaid financial statements give the information required by the Act in the manner so required (except matters stated in observation) and give a true and fair view in conformity with the accounting principles generally accepted in India.

- (a) in the case of the Balance Sheet, of the state of affairs of the Society as at 31st March, 2016; and
- (b) in the case of the Income and Expenditure account, of the excess of Income over expenditure for the year ended on that date; and
- (c) in the case of the of the Receipt and Payments Account, of the Receipts and Payments for the year ended on that date.

1. We report that:

- (a) We have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
- (b) In our opinion proper books of account as required by law have been kept by the ICID, so far as appears from our examination of those books.
- (c) The Balance Sheet, Income & Expenditure, and Receipt & Payments dealt with by this Report are in agreement with the books of accounts.
- (d) In our opinion, the Balance sheet, Income & Expenditure, comply with the relevant Accounting Standards.

For **P.K. Chopra & Co.**
Chartered Accountants
Firm Registration Number: 006747N

Place: New Delhi
Date: 27/05/2016

Sd/-
Tarun Kandhari
Partner
Membership Number: 074852

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE
BALANCE SHEET AS ON 31ST MARCH 2016

PARTICULARS		2015-16 Amount INR₹	2014-15 Amount INR₹
Assets			
Property & Equipment	1	11,413,117	12,381,385
Receivables	2	12,969,440	12,495,808
Stock of Publications	3	241,800	273,600
Bank Balances & Cash in Hand	4	67,442,621	61,413,339
Subscription Accrued		3,083,580	2,815,942
Total Assets		95,150,558	89,380,074
Liabilities			
Gulhati Memorial Lecture Fund	5	362,618	335,603
General Fund	6	48,890,317	51,352,443
Gratuity Fund	7	9,340,742	1,964,010
Corpus Fund-WID Prizes	8	1,644,395	1,218,306
Project Funds	9	228,913	2,604,205
Security from Tenant	10	21,230,000	19,310,000
Subscription Received in Advance	11	2,939,243	2,598,300
Payables & Provisions	12	10,496,051	9,916,016
Taxes Payable	13	18,279	81,191
Total Liabilities		95,150,558	89,380,074

As per our separate Report of even date attached

For and on behalf of
International Commission on Irrigation and Drainage

For P.K. Chopra & Co.
Chartered Accountants
Firm Registration No. 006747N

Sd/-
TarunKandhari
Partner
Membership No. 074852

Sd/-
Vijay K. Labhsetwar
Director

Sd/-
Avinash C. Tyagi
Secretary General

Places: New Delhi

Dated: 27thMay 2016

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE**RECEIPT AND PAYMENT ACCOUNT**For the Year from 1st April 2015 to 31st March 2016

PARTICULARS		2015-16 (Amount INR₹)	2014-15 (Amount INR₹)
RECEIPTS			
Cash & Banks (balance brought forward)	27	61,413,339	35,609,945
Membership Subscriptions	28	14,176,234	11,449,326
Sale of Publications	29	823,217	1,493,594
Special Contribution to the Budget	30	2,081,507	11,529,812
Interest on Fixed Deposits	31	4,805,032	2,699,714
Project Funds Received	32	6,270,123	4,299,686
Other Receipts	33	7,017,318	1,276,182
Rent and Maintenance Charges		39,027,627	38,579,975
Income Tax Refund	34	4,405,085	-
Total		140,019,482	106,938,235
PAYMENTS			
Salaries and Allowances	35	18,371,843	15,912,047
Compensation package for Secretary General		3,320,081	2,870,441
Superannuation Relief to Retired Employee		3,013,507	3,018,191
Professional & Other Services Charges	36	2,379,459	2,678,540
Repair & Maintenance	37	2,757,224	2,050,089
Taxes and Utilities	38	23,754,878	3,728,611
Rehabilitation & Refurnishing		1,104,185	5,243,976
Publication, Printing and Distribution	39	2,884,876	2,637,220
Conference Expenditure	40	1,094,678	1,392,295
Travelling Expenses	41	2,493,886	612,412
Project Funds Utilized	32	7,969,198	3,464,055
Others	42	93,627	144,396
Purchase of Fixed Assets	43	624,158	1,659,531
Workshop and Trainings		2,715,261	-
UNESCO IHE Online Course Sponsorship		-	113,092
Cash & Banks (balance carry forward)	27	67,442,621	61,413,339
Total		140,019,482	106,938,235

As per our separate Report of even date attached

For and on behalf of
International Commission on Irrigation and DrainageFor P.K. Chopra & Co.
Chartered Accountants
Firm Registration No. 006747NSd/-
TarunKandhari
Partner
Membership No. 074852Sd/-
Vijay K. Labhsetwar
DirectorSd/-
Avinash C. Tyagi
Secretary General

Places: New Delhi

Dated: 27thMay 2016

**APPROVED REVISED BUDGET 2016-2017, APPROVED BUDGET 2017-2018 AND
PRELIMINARY BUDGET 2018-2019 AND FORECAST BUDGET 2019-2020**

	Approved Revised Budget 2016-2017	Approved Budget 2017-2018	Preliminary Budget 2018-2019	Forecast Budget 2019-2020
I. RECEIPTS				
1. Membership Subscriptions	17,984,000	17,029,000	18,145,000	18,273,000
2. Sale of Publications	934,000	1,025,000	1,124,000	1,233,000
3. Special Contribution to ICID Budget	8,396,000	7,555,000	4,128,000	9,000,000
4. Interest on Fixed Deposits	5,110,000	4,810,000	4,810,000	5,110,000
5. Other Receipts	3,903,000	1,400,000	1,400,000	1,400,000
6. Rent and Maintenance Charges	47,726,000	49,264,000	49,264,000	57,907,000
Total Receipts	84,053,000	81,083,000	78,871,000	92,923,000
II. EXPENDITURE				
1. Compensation Package for Secretary General	4,567,000	4,836,000	5,417,000	6,068,000
2. Salaries and Allowances	25,763,000	31,356,000	30,327,000	33,655,000
3. Superannuation Relief to Retired Employees	3,493,000	3,805,000	4,262,000	4,774,000
4. Service & Maintenance	6,070,000	6,237,000	6,528,000	6,898,000
5. Taxes & Utilities	27,099,000	17,551,000	17,583,000	19,880,000
6. Rehabilitation, Refurbishing and Maintenance of ICID CO Building	3,100,000	1,210,000	1,331,000	1,465,000
7. Publication, Knowledge Management and Dissemination	4,005,000	4,157,000	4,121,000	4,795,000
8. Conference Expenditure	3,200,000	3,500,000	2,100,000	2,700,000
9. Cooperation with Other Organisations	196,000	330,000	330,000	330,000
10. Travel Expenditure	2,358,000	2,595,000	2,855,000	3,141,000
11. Purchase of Office Equipments	700,000	750,000	800,000	800,000
12. Workshops, Training and Studies	2,900,000	2,500,000	2,500,000	2,500,000
13. Other Expenditure	240,000	242,000	244,000	246,000
Total Expenditure	83,691,000	79,069,000	78,398,000	87,252,000
Surplus / (Deficit)	362,000	2,014,000	473,000	5,671,000



FEE STRUCTURE FOR ICID EVENTS IN 2017, 2018, 2019 and 2020

Year	2017	2017	2018	2018	2019	2019	2020
Venue	Ahvaz City, Iran	Mexico City, Mexico	Kathmandu, Nepal	Saskatoon, Canada	Aurangabad, India	Bali, Indonesia	Sydney, Australia
Event	13 th IDW	68 th IEC and 23 rd Congress	8 th ARC	69 th IEC and Regional Conference	9 th IMIC	70 th IEC and 3 rd WIF	71 st IEC and 24 th Congress
	Rate	Rate	Rate	Rate	Rate	Rate	Rate
Full registration	\$350	\$800	\$500	\$ 750	\$500	\$800	\$800
Non-member fee	\$ 400		\$650				\$ 900
Young Professionals (International)	\$175	\$400	\$250	\$ 375	\$250	\$400	\$400
Retired professionals (International)	\$150	\$ 400	\$ 250	\$ 375	\$250	\$400	\$400
Accompanying Persons (International)	\$150	\$ 300	\$ 150	\$ 300	\$200	\$300	\$ 300
Local / Delegates	\$150	\$ 500	\$ 150	\$ 400	\$200	\$200	\$800
Young Professionals (Local)	\$ 100				\$100		



PERMANENT MECHANISM TO SELECT THE THEMES FOR VARIOUS ICID EVENTS

The mechanism for evolving the Themes and Topics for Congresses, World Irrigation Fora, International Micro Irrigation Conference, International Drainage Workshops and Regional Conferences of ICID, will be as follows.

1. **International Congresses on Irrigation and Drainage and World Irrigation Forums (WIFs):** Sub-Committee on Themes, Topics and Work Plans of Future ICID Events (SC-E-THEMES)
2. **International Micro Irrigation Conference:** Working Group on Sustainable On-Farm irrigation System Development (WG-SON-FARM) reporting to PCTA
3. **International Drainage Workshops:** Working Group on Sustainable Drainage (WG-SDRG) reporting to PCTA.
4. **Regional Conferences:** The Asian Regional Conference, African Regional Conference, European Regional Conference and American Regional Conference may be formulated by the respective Regional Working Groups and the proposal may be routed through PCTA for Council's approval. The membership composition and terms of references for RTACs may be formulated by the respective RWGs.



MANDATES OF NEWLY ESTABLISHED WORKBODIES**A. TF for Updation and Maintenance of Multilingual Technical Dictionary (TF-MTD)**

- (a) to identify priority chapters and terms frequently referred/ consulted by AWM professionals
- (b) to consult/invite professional organizations to collaborate in enriching chapters/terms
- (c) to identify experts/work bodies to review terms/chapters
- (d) to encourage NCs in preparation and building of additional translations along with English/French
- (e) to identify interesting pictures/diagrams suitable to illustrate various terms, where required, and
- (f) to make it accessible on web/ mobile

B. Working Group on Water for Bio-Fuel and Food (WG-BIO-FUEL)

To collect, analyze, and disseminate information on new developments and to formulate recommendations with respect to:

- (a) the assessment, monitoring and predictions of impacts of biofuel production and usage policies on water-food-energy nexus and especially agriculture water management,
- (b) the national policies for biofuel and its consideration for water-food-energy nexus and especially agricultural water management in different countries,
- (c) the strategies which agriculture and irrigation authorities can adopt to support biofuel promotion policies of their government,
- (d) the international dialogue on biofuel and agricultural water management between regions and countries.

REVISE MANDATE OF WORKBODY**C. Working Group on Irrigation Development and Management (WG-IDM)**

- (a) assessment of consumptive use of water for irrigation and resulting water balance at system level ;
- (b) water demand management according to available resource(s) and system capacity;
- (c) assessment of water loss in various components of irrigation systems, appraisal of water made available for another use downstream (non-consumptive);
- (d) ground water development and management for irrigation including conjunctive use of surface and groundwater in irrigation, artificial recharge of aquifers from canals "losses" and "excessive" irrigation
- (e) water measuring methods and devices and relevant technology (flow rates and volumes).





DECLARATION OF MINISTERS' MEETING

6th November 2016, Chiang Mai, Thailand

Delivering SDGs through Agriculture Water Management



RECOGNIZING that Agriculture Water Management (AWM) is key to enhancing water security, ensuring the sustainability of the surface and groundwater resource, achieving food security in a world confronted by limited natural resources while positively influencing the process of achieving almost all Sustainable Development Goals (SDG);

ACKNOWLEDGING the need for advocacy for enhanced investment, means of sharing experiences, exchange of best practices, and transfer of technologies with focused attention on more effective and sustainable management of agricultural water, setting targets and evolving monitoring mechanism;

NOTING that the International Commission on Irrigation and Drainage (ICID), a professional, voluntary, not-for-profit International Organization, dedicated, inter alia, to enhance the world-wide supply of food and fibre for all people by improving water and land management, through application of irrigation, drainage and flood and drought management for achieving sustainable irrigated agriculture and disaster risk reduction, is supported by more than 60 member countries and serves as the required network;

ACKNOWLEDGING that ICID shares mutual goals of poverty alleviation through food and water security with UN entities Food and Agriculture Organization of the United Nations (FAO), International Fund for Agriculture Development (IFAD), World Meteorological Organization (WMO) as well as other International Organizations such as International Water Management Institute (IWMI), International Crop Research Institute for Semi-arid Tropics (ICRISAT) with participation of Asian Development Bank (ADB) and World Bank (WB), and has a mutual interest and commitment to work for better management of agriculture water and mitigation of water-related disasters caused by floods, droughts, etc., using the latest tools and information;

NOTING that the Paris Climate Conference (COP21) through article 7 of the Paris Agreement established the global goal on adaptation and called upon parties to strengthen their cooperation on enhancing action on adaptation by augmenting adaptive capacity, strengthening resilience and reducing vulnerability to climate change;

NOTING also that the Addis Ababa Action Agenda on Financing for Development calls for investing in sustainable and resilient infrastructure, including for energy, water and sanitation for all, as a pre-requisite for achieving many of our goals, and recognizes South-South cooperation as an important element of international cooperation for development as a complement, not a substitute, to North-South cooperation;

NOTING that Agenda 2030 for Sustainable Development recognizes Partnership as a means of implementing the agenda and encourages the establishment of voluntary partnerships for the achievement of these Goals;

NOTING with appreciation the efforts by FAO to bring sustainable agriculture and food systems to the forefront of the global Climate Change Agenda and the 2030 Sustainable Development Agenda and the partnership initiative on “Coping with water scarcity in agriculture: a global framework for action in a changing climate”;

Ministers, participating in the Second World Irrigation Forum, hosted by the Kingdom of Thailand, based on their deliberations on 6th November 2016 decided to:

- (A) **Establish** a High Level Advisory Group on “Partnerships for Agriculture Water Management” as an action-oriented multi-stakeholder partnership to:
 - (i) Facilitate improving agricultural water productivity, especially in irrigated areas where the competition for water is intensifying and/or water supplies are becoming less reliable;
 - (ii) Support member countries in achieving the SDG targets related to AWM by enabling existing partnerships as well as promoting new partnerships, where required;
 - (iii) Support the UN System efforts in monitoring the progress on related SDGs;
 - (iv) Strengthen the World Irrigation Forum, which provides opportunities for reviewing progress made by existing partnerships with inputs from regional and national partnership dialogues;
 - (v) Advocate strong policy support for higher investments in AWM to ensure food and water security;
 - (vi) Review and provide policy recommendations at the regional level for consideration by relevant regional bodies; and
 - (vii) Use the partnership to share experiences on SDG implementation.
- (B) **Allow** the membership of the High level Advisory Group to be open to all Members of the United Nations and its specialized agencies including multi-lateral development agencies, and will be chaired by a Member State of ICID. The High Level Advisory Group shall meet on a regular basis (at least once a year) and constantly monitor and guide the progress
- (C) **Invite** entities of the United Nations system, international and regional organizations, and major groups, to contribute to the efforts, as appropriate. Countries are to participate on a voluntary basis in national, regional, and global multi-stakeholder dialogues;
- (D) **Encourage** member countries to organize national multi-stakeholder partnership platforms in AWM, where possible through their National Committees affiliated with ICID, which could also contribute to the regional and global multi-stakeholder partnership through existing forums and meetings, where applicable; and
- (E) Recommend ICID to establish a dedicated Task Force to provide support to the High Level Advisory Group.



INTERNATIONAL RESEARCH PROGRAM FOR IRRIGATION AND DRAINAGE (IRPID) SCHEME

(Notified Vide Notification No.16 of 2016 dated 27 April 2016)

PART A: PROGRAM

International Research Program for Irrigation and Drainage (IRPID) is conceptualized as a program for developing and implementing research agenda in the irrigation and drainage sector to meet the challenges of water security and food security.

1. Vision

“Intensify Irrigation and Drainage Research to Achieve Global Food Security”

2. Mission

To enhance research activities in irrigation and drainage science, technology, and management aspects in order to develop capabilities of member countries in order to achieve water security, food security and poverty alleviation while preserving the environment.

3. Objectives of the Program

- (a) Foster a conducive policy environment for intensifying research and development activities, facilitate technology transfer and meet networking needs of members,
- (b) Identify and promote opportunities for NCs to gain relevance, efficiency and effectiveness within their countries,
- (c) Enhance research and innovations impacts in member countries by fostering increased coherence and convergence among various players, and
- (d) Help NCs raise financial resources required to undertake these research activities.

PART B: ORGANIZATIONAL STRUCTURE

The organizational structure of IRPID consists of an Advisory Committee (AC) established by ICID as a Permanent Committee (PC) to guide the program implemented through a network of Regional Nodes (RN). In order to implement a distributed program, it is important that various actors within the program have a clear understanding of their respective roles and responsibilities which are described in the following paragraphs.

4. The Advisory Committee

The Advisory Committee for IRPID consists of:

- (a) Chair: Chairperson of PCTA,
- (b) Members: Head of regional nodes,
- (c) ICID Secretary General,
- (d) FAO, IWMI and World Bank Representative,
- (e) Theme Leaders (Basin, Knowledge, On-Farm, and Scheme).

5. Terms of reference of the Advisory Committee

The Advisory Committee is responsible for developing a Framework Action Plan for the program, guided by the concept document as was presented at the 61st IEC in Yogyakarta in 2010 and keep overall coordination among the Regional Nodes duly supporting their autonomy and maintaining flexibility in fulfilling their roles. These can be categorized as follows:

- (a) Develop the Strategy duly describing the strategic objectives and a Framework Action Plan for the program;
- (b) Review and monitor the implementation of the program to ensure the quality of outputs and their effectiveness; and
- (c) Mobilize and allocate extra-budgetary resources for joint activities.

5.1 Strategic Planning would broadly include actions that:

- (i) Initiate the necessary steps to establish the program,
- (ii) Provide policy direction and leadership for the program,
- (iii) Oversees the development and review of the Strategy and the Framework Action Plan,

- (iv) Consider proposals for setting up new Regional Nodes based on the Action Plan.
- (v) Develop policies/plan to bring coherence and interaction between the Regional Nodes,
- (vi) Review current and potential organizational structure, and
- (vii) Advise and assist Regional Nodes.

5.2 Review and Monitoring

- (i) Review and endorse Work Plans of the Regional Nodes aligning them with the Framework Action Plan and vice versa,
- (ii) Monitor the output of Regional Nodes and review their performance and efficiency,
- (iii) Evaluate the performance of Regional Nodes and decide on their continuation, or otherwise, as member of the network.

5.3 Resources Mobilization

- (i) Develop a framework for funding, including resource mobilization strategy to address programmatic and structural needs,
- (ii) Ensure financial and operational accountability for all funds received for the implementation of the program by ICID.
- (iii) Take decisions on the allocation and prioritization of funding received by ICID across the RN and reporting progress to donors.

5.4 Coordination and Communication

The Advisory Committee, with the assistance of Central Office, maintain a data base of research institutions working in the field of agriculture water management within each NC of ICID. AC will work by teleconference and e-mails and except for the annual International Executive Council (IEC) of ICID meeting, a face to face meeting may be convened in exceptional circumstances. The AC members shall not commit the Commission to any new program expenditure or impose significant additional administrative costs without the prior approval of the IEC.

6. Regional Nodes

Each regional network shall have minimum of 3 member countries of ICID. The Regional Node is established in one of the countries of the concerned regional network based on the approval of IEC. Funds for the activities of the Regional Node and its members are to be provided by the member countries themselves. Representative of the RN country constitute a Management Board coordinates and acts as its Head. RN will

- (a) orient research activities according to the agreed Framework Action Plan aligned to overall ICID strategies;
- (b) coordinate high quality research in accordance with the work plan agreed to;
- (c) report research impacts as is required by the Board or any performance contract; and
- (d) empower member countries in fulfilling their objectives.

6.1 Management Board of Regional Node (MBRN) consists of:

- (i) Head of RN,
- (ii) Representatives of participating member countries,
- (iii) Representative of PCTA,
- (iv) Executive Secretary,
- (v) Regional FAO Representative,
- (vi) Regional IDB Representative, or other world/regional development banks, donors.

6.2 Functions of the Regional Nodes

- (i) Enhance research activities in irrigation and drainage science, technology, and management aspects in a concerted action within the member countries.
- (ii) Support uptake of the advanced techniques suitable to the regional conditions,
- (iii) Support capacity development activities of members through training and/or workshops,
- (iv) Promote efficiency of each member to work individually, and
- (v) Enhance financial resources available to members through joint projects and implement such joint activities.

6.3 The scope of the activities of Regional Nodes:

RNs as part of their Action Plan may consider undertaking, but not limited to, the following activities:

- (i) Study and research engineering aspects of irrigation and drainage related issues such as reservoirs, canals, drains, and other related infra-structures for storage, conveyance, distribution, collection, and disposal of water.
- (ii) Conduct researches on stakeholders' participation in irrigation and drainage management.
- (iii) Investigate appropriate legislative requirements in different aspects of irrigation and drainage.
- (iv) Facilitate implementation of the research projects related to social and economic considerations of irrigation and drainage.
- (v) Support and coordinate exploration in smallholder irrigation, drainage networks, sustainability, deficit irrigation, water conservation, use of unconventional water, and modernization of irrigation schemes.
- (vi) Facilitate investigations on enhancing the environmental impacts of irrigation and drainage projects leading to more sustainable development.
- (vii) Conceive capacity development in knowledge, skills and know-how in developing and low income countries, through dissemination of research outcomes.
- (viii) Provide a comprehensive data bank on irrigation and drainage research activities and outcomes among ICID member countries.
- (ix) Cooperate with other national, regional, and international organizations, whose interests and activities are related to the mission of IRPID.
- (x) Support research and innovations in irrigation and drainage equipment and technologies.
- (xi) Hold periodical meetings, conferences, exhibitions and workshops, and supporting the publication of conference proceedings, reports, guidelines, documents, and electronic media materials related to irrigation and drainage research outcomes in accordance with ICID's rules and regulations.

6.4 MBRN's responsibilities

Each unit carries out the following duties:

- (a) **Head of Regional Node:** is responsible for all the research and capacity development activities according to the agreed work plan prepared and approved, adhering to the Framework Action Plan,
- (b) **Representatives of member countries:** Are responsible for implementing the work plan and coordination within their countries,
- (c) **Representative of PCTA:** Reporting on research impacts as is required by the management board of the regional node or any performance contract,
- (d) **Executive Secretary:**
 - Is responsible for the day to day works of coordination and shall save and report to the AC.
 - Support the Node autonomy and flexibility in fulfilling their roles.

Regional Nodes Organizational Chart



Abbreviations, wherever are used are meant as follows:

AC	= Advisory committee
FAO	= Food and Agriculture Organization
ICID	= International Commission on Irrigation and Drainage
IDB	= Islamic Development Bank
IEC	= International Executive Committee
IPTRID	= International Program for Technology and Research in Irrigation and Drainage = International Research Program for Irrigation and Drainage
MBRN	= Management Board of Regional Node
NC	= National Committee
PC	= Permanent Committee
PCTA	= the Permanent Committee for Technical Activities
RN	= Regional Node
WGs	= Working Groups
WG-ENV	= Working Group on Environment
WG-M&R	= Working Group on Modernization & Revitalization of Irrigation Schemes
WG-PQW	= Working Group on Poor Quality Water for Irrigation
WG-SDRG	= Working Group on Sustainable Drainage
WG-SON-FARM	= Working Group on Sustainable On-Farm Irrigation System Development



**List of participants at the
67TH INTERNATIONAL EXECUTIVE COUNCIL (IEC) MEETING
12 November 2016, Chiang Mai, Thailand**

(a) OFFICE BEARERS**President**

1. Dr. Saeed Nairizi (Iran)

Vice Presidents

2. Dr. Mohamed Abd-El-Moneim Wahba (Egypt)
3. Dr. Ding Kunlun (China)
4. Mr. Bong Hoon Lee (Korea)
5. Prof. Dr. Charlotte de Fraiture (The Netherlands)
6. Mr. Ian William Makin (United Kingdom)
7. Prof. Dr. Abdelhafid Debbarh (Morocco)

Secretary General

8. Er. Avinash C. Tyagi, ICID (India)

(b) CHAIRPERSONS OF PERMANENT COMMITTEES

1. Vice President Laurie C. Tollefson (Canada), PFC
2. Vice President Hon. Felix B. Reinders (South Africa), PCTA
3. Vice President Huseyin GÜNDOĞDU (Turkey), PCSO

(c) PAST PRESIDENTS

1. Prof. Dr. Chandra Madramootoo (Canada)
2. Dr. Gao Zhanyi (China)
3. Prof. dr. Ir. Bart Schultz (The Netherlands)
4. Mr. Peter S. Lee (United Kingdom)

(d) PAST VICE PRESIDENTS

1. Mr. Laurie C. Tollefson (Canada)
2. Mr. Shinsuke Ota (Japan)
3. Dr. Laszlo G. Hayde (Hungary)
4. Mr. Adama SANGARE (Mali)
5. Dr. A. Hafied A. Gany (Indonesia)
6. Dr. Gerhard R. Backeberg (South Africa)
7. Dr. Huseyin GÜNDOĞDU (Turkey)
8. Dr. Ragab Ragab (United Kingdom)

(e) NATIONAL COMMITTEES / COMMITTEE

- | | |
|--|----------------|
| 1. Mr. Stephen Mills; Ms Kathleen Heuvel | Australia |
| 2. Mr. M. OUANGO D. François | Burkina Faso |
| 3. Mr. Warren Helgasun | Canada |
| 4. Mr. Li Ruoxi | China |
| 5. Mr. Kuang-Ming Chuang; Mr. Ray-Shyan Wu | Chinese Taipei |
| 6. Dr. Mohamed Abd-El-Moneim Wahba | Egypt |
| 7. Mr. Grosclaude Jean-Yves, Dr. Dominique ROLLIN | France |
| 8. Dr. Sándor Szalai; Dr. Laszlo G. Hayde | Hungary |
| 9. Mr. Anuj Kanwal | India |
| 10. Dr. A. Hafied A. Gany; Mr. Ismail Widadi | Indonesia |
| 11. Mr. Mohammad Hajrasouliha; Mr. Ali Reza Salamat; Dr. M. Ehsani | Iran |
| 12. Dr. Marco Arcieri | Italy |
| 13. Mr. Sato Yohei; Mr. Masao Miyazaki; Dr. Kenichi Uno | Japan |
| 14. Mr. Jo Rae Cheong; Dr. Yong Jig Lee; Ms GONG Ju | Korea |
| 15. Ir. Mat HUSSIN; Ir. Moho Anuar Musaroar B. Yusoff | Malaysia |
| 16. Mr. Adama SANGARE | Mali |

17. Mr. Luis Alcocer	Mexico
18. Dr. Abdelhafid Debbarh	Morocco
19. Mr. Mu Mu Than	Myanmar
20. Mr. Madhav Belbase	Nepal
21. Mr. Waseem Nazir	Pakistan
22. Dr. (Mrs.) Irena G. Bondarik	Russia
23. Mr. Abdullahi Hassan Hussein	Somalia
24. Dr. Sylvester Mpandeli; Mr. Felix B. Reinders	South Africa
25. Mr. G.M.R.A. Perera; Mr. N.G.R. Ariyaratne	Sri Lanka
26. Dr. Somkiat Prajamwong; Mr. Thanor Suwattana	Thailand
27. Prof. Dr. Charlotte de Fraiture	The Netherlands
28. Mr. Omer Farut Akbulut; Mr. Ahmet Seren	Turkey
29. Prof. Peter Kovachenko	Ukraine
30. Mr. Peter Lee; Dr. Ragab Ragab; Mr. Ian W. Makin	United Kingdom
31. Mr. Larry D. Stephens	USA

(f) OBSERVERS

1. Mr. Kisty Wiming; Mr. Bryan Ward (Australia)
2. Ms Pei Chun Ni (Chinese Taipei)
3. Mr. Nita Yuliati (Indonesia)
4. Mr. Naoki Hayashida; Mr. Tomoaki Koyama (Japan)
5. Mr. Daesu EO; Dr. Jeong Ryeol Jang; Mr. Youn Sun Lee; Mr. Seung Won Lee; Mr. Kim Syun Tin (Korea)
6. Ms Patricia Nerrera Asencio (Mexico)
7. Mrs. Serpil KÖYLÜ DALGIN; Mr. Bilge Omar (Turkey)



APPROVED FOR INCLUSION IN HERITAGE IRRIGATION STRUCTURE (HIS)

Sl. No.	Name of HIS	Country
HIS-2016		
1	Chatan Weir Irrigation System	China
2	Lougang Irrigation and Drainage System of Taihu Lake Basin	China
3	Zhengguo Canal Irrigation System	China
4	Byeokgol-je	Korea
5	Chukmanje Dam	Korea
6	Teruizeki Irrigation Canal	Japan
7	Asakasosui Irrigation System	Japan
8	Naganoseki Irrigation Canal	Japan
9	Asuwagawa Irrigation Canal	Japan
10	Meiji-yousui Irrigation Canal	Japan
11	Kounomizo-Hyakutaroumizo Irrigation System	Japan
12	Mannou-ike Reservoir	Japan
Addition to 2015 HIS List		
13.	Quebei Pond	China
14.	Tuoshan Weir	China
15.	Zhuji Shadoof Irrigation System	China
16.	Aswan Dam	Egypt
17.	Delta Barrages	Egypt
18.	Drainage System in Novgorod Region	Russia
19.	Uchikawa Irrigation System	Japan
20.	Murayama-rokkamurasegi-sosui Irrigation Canal	Japan
21.	Takinoyusegi and Okhawarasegi Irrigation System	Japan
22.	Jikkasegi Irrigation System	Japan
23.	Genbegawa Irrigation Canal	Japan
24.	Minamiieki-kawaguchi-yusui Irrigation System	Japan
25.	Tokiwako Reservoir	Japan



**IMPORTANT DECISIONS TAKEN BY THE
MANAGEMENT BOARD ON BEHALF OF IEC
BETWEEN
66TH IEC MEETING (MONTPELLIER, OCTOBER 2015) AND
67TH IEC MEETING (CHIANG MAI, NOVEMBER 2016)**

(And the actions taken thereon)

Decision by the MB Meetings	Decision of 67 th IEC
I. Virtual Management Board Meeting No.1/16, 29 March 2016 (via teleconferencing)	
1. MB approved the proposal of Iranian National Committee on Irrigation and Drainage (IRNCID) to shift the dates for the 13 th International Drainage Workshop from 3-6 March to 4-7 March 2017.	Endorsed.
2. MB reviewed the budget provision for the Financial Year 2015-16 and expenditure incurred under different items and approved the increase in provision made under item Arrear of Taxes from Rs 8.6 million to Rs 10 million.	Endorsed.
II. Virtual Management Board Meeting No.2/16, 17-23 May 2016 (via e-mail exchange)	
3. MB approved proposed negotiated rates of subscription for "Irrigation & Drainage" for the year 2017 @ US\$ 47 for "Online" and US\$ 57 for "Online + Print" for ICID member subscriptions which will be placed before PFC prior to its approval in 67 th IEC.	Endorsed.



**PRESENTATION ON STRATEGY THEME “ON-FARM”
Vice President Bonghoon Lee**

I. Background

Agriculture faces complex challenges in the near future between now and 2050 to satisfy an estimated population of nine billion. According to the UN statistics, World population is growing by 80 million people per year and expected to reach 9 billion by 2050. Population growth, urbanization, industrialization, and increases in production and consumption have all generated ever-increasing for freshwater.

By 2030, the world is predicted to face a 40% global water deficit. Competing demand increases the risk of localized conflicts and will lead to increasingly difficult allocation decisions and limit the expansion of sectors critical to sustainable development.

Climate change will exacerbate the risks associated with variations in the distribution and availability of water resources. Climate change will lead to more frequent and intense weather extreme events like droughts and floods, with devastating impacts on food production systems. Sound water management is essential for building societal resilience against such increased risks.

International Commission on Irrigation and Drainage (ICID) has contributed to enhance the global production of food and serials by improving water management and the productivity of irrigated and drained lands through appropriate management of water, environment, and application of irrigation, drainage, and relevant experiences and technologies. To realize ICID's missions, the technical activities of the ICID are organized under four strategy themes: ON-FARM, SCHEMES, BASIN, and KNOWLEDGE. The Working Groups (WGs) under the On-Farm theme deals with the application of water at the farm level and the best way to use it to increase the productivity and impacts of application of irrigation water including its quality at the farm level. The WGs falling within the theme Scheme address various aspects of delivery of water from the source to the farm level including the planning, development and management.

II. Review on Strategy Theme On-Farm

The technical activities of ICID are organized under four Strategy Themes: ON-FARM, SCHEME, BASIN, and KNOWLEDGE. Each Strategy Theme comprises WGs or Task Forces (TFs) as work bodies. The topics to be addressed under each theme are as follows:

1. **KNOWLEDGE:** (a) Training, research, technology transfer, publications; (b) Flood management
2. **BASIN:** (a) Policy/planning framework, economic and legal issues, institutional aspects; (b) Water and soil resources management, environment, sustainable development.
3. **SCHEME:** (a) Institutional & Organizational aspects; (b) Revitalization, modernization, development and management with sustainability, and water saving in irrigation
4. **ON-FARM:** (a) Irrigation management and farming techniques; (b) Drainage management and farming techniques in the catchment.

Strategy Theme ON-FARM consists of three WGs: Working Group on Water and Crops (WG-CROP); Working Group on Sustainable On-Farm Irrigation System Development (WG-SON-FARM); and Working Group on Use of Poor Quality Water for Irrigation (WG-PQW).

These three WGs have worked and contributed actively in accordance with ICID's mandates and roles. In various publication with useful data bound contributed to accumulate technologies on irrigation and drainage, and abundant theses and papers reflecting NCs characteristics are presented. The WGs have promoted mutual cooperation, dissemination, and sharing experiences and technologies, and reviews on previous activities. However, they have faced challenges while the participants have decreased and their actions have gradually been undertone. The WGs' action and participation can be activated if various works of NCs can derive many experts attention through productive actions.

❖ **WG-ON-FARM**

The mandates of ON-FARM are as follows: On-farm irrigation structures and water distribution system networks are properly designed, installed, managed and maintained; Soil moisture is monitored, technical and management measures for enhancing the water infiltration and retention capacities of soils are investigated and implemented; Trade-offs among on-farm irrigation technologies, socio-economic and environmental benefits are optimized; Innovative local institutional arrangements are developed and promoted for operation and maintenance; and Top-notch scientific and development relevant research is conducted and its results are translated into actionable recommendations.

Finalizing eighteen years of its working term since 1998, WG-ON-FARM is preparing closure report on finalizing its work for seventeen years as WG-ON-FARM. It starts the new history as WG-SON-FARM in 2016. On that account WG-ON-FARM has worked successfully, it won the Best Performing Work body Award in 2014.

On-farm irrigation circumstance of member countries may vary In accordance with various factors, such as: weather; geographical and geological consideration; and quantity of available water resources. Especially in Asia and Africa, for instance, Pressured irrigation system, such as sprinkler or drip irrigation cannot be adopted to replace traditional flood-based farming system (FBFS) because of the limitation of investment financing. In this regard, proper research will be necessary to improve efficiency on traditional water management.

❖ **WG-PQW**

The mandates of WG-PQW are as follows: 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.

It is one of the most important tasks to all countries to secure sufficient amount of water in good quality, under the situation with which the competition on water use is gradually becoming a serious concern. WG-PQW is still facing challenges to adopting new technologies to the field, nevertheless the various accumulated research achievement and experience. Because installation and operation of the plant to treat poor quality water cost need a lot of financial resources, eco-friendly and cost-effective method of treatment is necessary in accordance with local geographic and economic situation.

As the working term of WG-PQW started in 1995 will be expired 2016, it plans to start the new chapter with new mandates out of renewed scoping documents. WG-PQW jointly hosted "Round Table Discussion on the reuse of treated sewage water" with 'Association Française pour l'Etude des Irrigations et du Drainage (AFEID)' side at Montpellier France in 2015.

❖ **WG-CROP**

The mandates of WG-CROP are as follows: 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.

WG-CROP is planning to publish a technical report on multi-functionality of water use in paddy cultivation through in-depth research and discussion, as well as expecting publication on various topics, such as: crop water models; rainfall harvesting; energy crop; and etc. The WG hold an 'International Workshop on Precision Irrigation for Sustainable Crop Production' in terms of following themes at Montpellier France in 2015. As the WG's working term will be expired by 2016, it is to be requested to extend the term through discussion among members. In terms of its main working scope and name, it is planned to change its name as WG-WATER&CROPS. The WG is facing challenge due to the members' inactive participation. One of the reasons would presumably be the heavy burden on annual registration fee, which ICID is necessary to set a counterplan.

III. Vision and Future Direction

The function and role of the government on development and use of water would be different in each member country. In terms of organizations for water, in general, there are tentatively two different situations: 1) There is an exclusive organization which has full responsibility and authority; and 2) Various stakeholders share water management in terms of multiple purposes on water development and use. To enhance water and irrigation efficiency, it is essential that each organization should closely cooperate together. In this regard, the active participation of various organizations in ICID WGs is advisable. ICID should suggest an open platform to communicate with all relevant stakeholders, and each NC should encourage participation of various organizations in their region.

ICID has published a lot of various technical data and research reports since 1950, and those are under good management. It is necessary, for the next step, to adopt those accumulated experiences and technologies to the field of member countries, especially in developing stages. ICID, as a new attempt, initiated 'a Technical Support Unit' at Montpellier France in 2015. All member countries should endeavor to realize the application of technology and experiences to the field through active participation.

It is anxious that some NCs withdraw from ICID recently. To cope with this situation and revitalize ICID, it would be one possible way to reinforce cooperation between NCs sharing the commonality in geography, culture, socio-economy, and agriculture. The reason of some NCs' withdrawal from ICID (actually, arrears of annual membership fee) is multiple including: lack of finance; generation gap without succeeding young professionals; donors' insufficient understanding on ICID; and others. Sharing experience and technology to foster succeeding young professionals through frequent contacts among NCs with joint projects can contribute to revitalize ICID consequently. It is advisable that NCs in socio-economically good circumstances may support other NCs with challenging condition in various aspects.

A variety of meetings which ICID has held – Congress, International Executive Council (IEC) Meeting, World Irrigation Forum (WIF), Regional Conferences, and etc. – can suggest significantly precious chances for business. It can provide an international platform to NCs and their relevant organizations (including private sector) on which they can meet at a mutually convenient time and discuss together to search for new projects, because the meetings can derive participation of people with influence on irrigation and drainage from NCs as well as corporates with advanced technologies. Especially, if the private sector can find business chances where developing countries search for development chances through those meetings, it may consequently contribute to the revitalization of ICID and to promote food security through irrigation and drainage development.

IV. Recommendation

It is crystal clear that Young Professionals (YPs) are the future of ICID. ICID should foster YPs as future leaders through operating regular capacity-development program by reinforcing support system of YPs. To realize regular capacity-development of ICID, it is necessary to address donor partners and designate a proper training institute from NCs, for sustainable, stable, and long-term capacity-development of YPs.

Active promotion of private sector's participation can significantly contribute to reducing some NCs' burden which needs financial support, and to revitalize their activities. ICID may embrace the private companies as 'Direct Members' so that it reinforce ICID's financial foundation to support some NCs through developing new Guideline to impose different subscription fee to private companies in accordance with their scale and capacity. Private companies will not hesitate participating in ICID if they can find the business opportunities on the worldwide platform of water (irrigation and drainage) which ICID internationally suggests. ICID needs to consider the proper way to derive their active participation.



**MEMBERSHIP OF VARIOUS WORKBODIES
(As Updated During 67TH IEC)**

**I. PERMANENT FINANCE
COMMITTEE (PFC)**

No.	Members	Country	Remarks
1.	VPH Mr. Laurie Tollefson	Canada	Chair (2013)
2.	President Hon. Prof. Dr. Bart Schultz	Netherlands	Member (2011)
3.	Mr. Hao Zhao	China	Member (2012)
4.	Ms. Serpil Koylu Dalgin	Turkey	Member (2012)
5.	Mr. Naoki Hayashida	Japan	Member (2014)
6.	Engr. Husnain Ahmad	Pakistan	Member (2014)
7.	Dr. Irene Bondarik	Russia	Member (2014)
8.	Mr. Ali Reza Salamat	Iran	Member (2016)
9.	Mr. Hazim Ibrahim Othman Mohammed	Iraq	Provisional Member (2016)
10.	Secretary General		Member-Secretary

**II. PERMANENT COMMITTEE ON STRATEGY AND
ORGANIZATION (PCSO)**

No.	Members	Country	Remarks
1.	Vice President Mr. Bong Hoon Lee	Korea	Chair (2012)
2.	Ms. Kathleen Heuvel	Australia	Vice Chair (2013)
3.	Vice President Hon. Dr. Ir. Basuki Hadimoeljono	Indonesia	Member (2013)
4.	Vice President Hon. Mr. Kadhim Mohsin Ahmed	Iraq	Member (2013)
5.	Vice President Hon. Er A.B. Pandya	India	Member (2014)
6.	Vice President Dr. Mohamed Abd-El-Moneim Wahba	Egypt	Member (2014)
7.	Vice President Dr. Ding Kunlun	China	Member
8.	Vice President Bong Hoon Lee	Korea	Member (2014)
9.	Vice President Prof. Dr. Charlotte de Fraiture	The Netherlands	Member (2015)
10.	Vice President Mr. Ian William Makin	UK	Member (2015)
11.	Vice President Prof. Dr. Abdelhafid DEBBARH	Morocco	Member (2015)
12.	Vice President Dr. Irene G. Bondarik	Russia	Member (2016)
13.	Vice President Mr. Waseem Nazir	Pakistan	Member (2016)
14.	Vice President Mr. Madhav Belabse	Nepal	Member (2016)
15.	Secretary General, ICID		Member-Secretary
16.	FAO representative		Permanent Observer
17.	World Bank representative		Permanent Observer
18.	GWP representative		Permanent Observer

No.	Members	Country	Remarks
19.	WWC representative		Permanent Observer
20.	Chairpersons of all Regional Working Groups and Working Groups/Committees under PCSO.		Ex-Officio Members

II.A. Membership Status of Working Groups under PCSO

II.1 — AFRWG

No.	Members	Country	Remarks
1.	VP Dr. M.S. Wahba	Egypt	Chair (2016)
2.	Dr. Sylvester Mpandeli	South Africa	Vice Chair (2013)
3.	Mr. Jean Bernard Dambre	Burkina Faso	Secretary (2010)
4.	VPH Samia El-Guindy	Egypt	(2014)
5.	Engr. Joe Kwanashie	Nigeria	(2014)
6.	Mrs. Salamata Karambiri Miwende	Burkina Faso	(2015)
7.	Mr. Tchouadang Kadjonga	Chad	(2015)
8.	Mr. Mulako Cornelius Sitali	Zambia	(2015)
9.	Representative	Zimbabwe	(1995)
10.	Representative	Morocco	(1959)
11.	Representative	Sudan	(1964)
12.	Representative	Malawi	(1967)
13.	Representative	Ethiopia	(1976)
14.	Representative	Mali	(2005)
15.	Representative	Niger	(2007)
16.	Representative	Tanzania	(2011)
17.	Representative	Madagascar	(2014)
18.	Representative	Somalia	(2016)

II.2 — ASRWG

No.	Members	Country	Remarks
1.	VPH Karim Shiati	Iran	(1997) Chair (2006)
2.	Mr. Uttam Raj Timilsina	Nepal	(2011)
3.	Dr. Kota Tirupataiah	India	(2012)
4.	Mr. Arthon Suttigarn	Thailand	(2012)
5.	Dr. Aynur Fayrap	Turkey	
6.	Ir. Syed Abdul Hamid bin Syed Shuib	Malaysia	(2013)
7.	Dr. Rajinder Kumar Gupta (Direct Member), WAPCOS India Limited	India	(2014)
8.	Mr. Naoki Hayashida	Japan	(2014)
9.	Dr. Mochammad Amron	Indonesia	(2015)
10.	Prof. (Ms.) Kyung Sook Choi	Korea	(2015)
11.	Dr. Gwo-Hsing Yu	Chinese Taipei	(2015)
12.	Mr. Stephen Mills	Australia	(2015)
13.	Mr. Ilkhom Juraev	Uzbekistan	(2015)
14.	Prof. Wang Aiguo	China	(2016)
15.	Mr. Shaimaa Shihab Ahmed	Iraq	Provisional Member (2016)
16.	Mr. Ammar Salah Ahmed Manhee (Young Professional)	Iraq	Provisional Member (2016)
17.	Representative	Sri Lanka	(1950)
18.	Representative	Pakistan	(1953)
19.	Representative	Philippines	(1956)
20.	Representative	Myanmar	(1962)
21.	Representative	Bangladesh	(1973)
22.	Representative	Saudi Arabia	(1977)
23.	Representative	Kazakhstan	(2006)
24.	Representative	Tajikistan	(2014)

II.3 — ERWG			
No.	Members	Country	Remarks
1.	VP Ian Makin	UK	(2014) Chair (2015)
2.	VPH Peter Kovalenko	Ukraine	(1999) Vice-Chair (2005)
3.	Mr. Olli-Matti Verta	Finland	(2000) Secretary (2011)
4.	Representative	Netherlands	(1950)
5.	Representative	Spain	(1955)
6.	Representative	Switzerland	(1955)
7.	VPH Brane Maticic	Slovenia	(1992)
8.	Mr. Pedro Eduardo da Cunha Serra	Portugal	(1996)
9.	Prof. Dr. Ion Nicolaesco	Romania	(1996)
10.	Prof. Dr. Svatopluk Matula	Czech Republic	(1997)
11.	Dr. Davor Romic	Croatia	(2002)
12.	Dr. John Martin	Ireland	(2003)
13.	VPH Laszlo Hayde	Hungary	(2005)
14.	Dr. Irina G. Pankova	Russia	Observer (2007)
15.	Dr. (Mrs.) Sabine Seidelas as Young Professional	Germany	Observer (2011)
16.	Dr. Irena Bondarik	Russia	(2012)
17.	Dr. Klaus-Dieter Vorlop	Germany	Observer (2012)
18.	Dr. Sami Bouarfa	France	(2013)
19.	Mr. Peter Alexey Yurievich, Chair, EWTDR	Russia	Ex-Officio Member (2014)
20.	Mr. Hannes Puu	Estonia	(2015)
21.	Dr. Marco Arcieri	Italy	(2015)

II.4 — C-CONGR			
No.	Members	Country	Remarks
1.	Mr. Luis Felipe Alcocer	Mexico	Chair (2016)
2.	VP Bong Hoon Lee	Korea	Representative
3.	Mrs. Narges Zohrabi	Iran	Representative
4.	Dr. Somkiat Prajamwong	Thailand	Representative
5.	Mrs. Serpil Koylu	Turkey	Representative
6.	Dr. Dominique Rollin	France	Representative
7.	VPH M.H. Amer	Egypt	Representative
8.	Ir. Brad Peters	Canada	Representative
9.	Mr. Madhav Belbase	Nepal	Representative
10.	Mr. Anuj Kanwal	India	Representative

II.5 — WG-IDSST			
No.	Members	Country	Remarks
1.	VPH Peter Kovalenko	Ukraine	Chair (2009)
2.	VPH Victor A. Dukhovny	Uzbekistan	Vice Chair (2009)
3.	Dr. Shukhrat Mukhamedjanov	Uzbekistan	Secretary (2014)
4.	Dr. Katsuyuki Shimizu	Japan	(2013)
5.	Dr. Rajinder Kumar Gupta (Direct Member), WAPCOS India Limited	India	(2014)
6.	Dr. Alexander Solovyev	Russia	(2014)
7.	Engr. Peter Yakube Manjuk	Nigeria	(2014)
8.	Mr. Bakhrom Gafarov	Tajikistan	(2015)

II.6 — IYPeF			
No.	Members	Country	Remarks
1.	Ms. Kathleen Heuvel	Australia	Coordinator (2016)
2.	Ms. Adey N. Mersha	Ethiopia	Joint Co-ordinator (2016)
3.	Mr. Rafat Nael Al-Intaki	Iraq	Joint Co-ordinator (2016)
4.	Mr. Mika Turunen	Finland	Joint Co-ordinator (2016)

5.	Mr. Abdullahi Hassan Hussein	Somalia	Joint Co-ordinator (2016)
6.	Ms. Jakia Akter	Bangladesh	Joint Co-ordinator (2016)

III. PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)

No.	Members	Country	Remarks
1.	VP Dr. Ding Kunlun, Chair	China	Chair (2015)
2.	Prof. Graziano Ghinassi, (Italy)	Italy	Member (2012)
3.	Prof. Masayoshi Satoh (Japan)	Japan	Member (2012)
4.	PH Peter S. Lee (UK)	UK	Member (2013)
5.	Ms. Aysen Pervin Güngör (Turkey)	Turkey	Member (2014)
6.	Mr. Chaiwat Prechawit (Thailand)	Thailand	Member (2014)
7.	Dr. Mohamed Wahba	Egypt	Member (2015)
8.	Mr. Ali Reza Salamat	Iran	Member (2015)
9.	Secretary General, ICID		Member-Secretary
10.	World Bank representative		Permanent Observer
11.	FAO representative		Permanent Observer
12.	IWMI representative		Permanent Observer
13.	ISO representative		Permanent Observer
14.	WWC representative		Permanent Observer
15.	CPWF representative		Permanent Observer
16.	AgWA representative		Permanent Observer
17.	All Strategy Theme Leaders and Chairs of all Workbodies under PCTA. Ex-Officio Member Vice President Hon. Larry D. Stephens (USA), Chair, C-PR&P as Secretary (PCTA).		Ex-Officio Members

III.A. Membership Status of Working Groups under PCTA

III.B.1 — WG-BIO-FUEL			
No.	Members	Country	Remarks
1.	Dr. Fuqiang Tian	China	(2012) Chair (2015)
2.	Mr. Sanjay Belsare	India	(2010)
3.	VPH Laurie C. Tollefson	Canada	(2012)
4.	Mr. Uttam Raj Timilsina	Nepal	(2012)
5.	Mr. Mortaza Yazdkhasti	Iran	(2015)
6.	Mr. André Roux	South Africa	(2015)
7.	Mr. Bassam Hayek	Jordan	Observer (2015)
8.	Dr. Salih Hamad Hamid Omer	Sudan	(2016)
9.	Mr. Rajiv Kumar	India	Provisional Member (2016)
10.	Mrs. Ruaa Khalid Hamdan	Iraq	Provisional Member (2016)

III.B.2 — WG-CAFM			
No.	Members	Country	Remarks
1.	Dr. Kamran Emami	Iran	(1999) Chair (2010)

2.	Dr. Takao Masumoto	Japan	(2009) Vice Chair (2015)
3.	Mohd Adnan bin Mohd Nor	Malaysia	(2013) Secretary (2015)
4.	Mr. Maurice Roos	USA	(2006)
5.	Mr. Olli-Matti Verta	Finland	(2011)
6.	Mr. Marcel Marchand	Netherlands	(2011)
7.	Dr. Arthon Suttigarn	Thailand	(2012)
8.	Ms. Aysen Pervin Gungor	Turkey	(2012)
9.	Dr. Herman Booysen	South Africa	(2012)
10.	Mr. R.K. Agarwal (Direct Member), WAPCOS India Limited	India	(2014)
11.	Dr. Rozalija Cvejic	Slovenia	(2014)
12.	Mr. V.D. Roy	India	Provisional Member (2015)
13.	Prof. Dr.-Ing. Klaus Rottcher	Germany	Observer (2015)
14.	FAO representative		Observer
15.	UNDRO representative		Observer
16.	WMO representative		Observer
17.	World Bank representative		Observer

III.B.3 — WG-CLIMATE

No.	Members	Country	Remarks
1.	Dr. Tsugihiko Watanabe	Japan	(2006) Chair (2014)
2.	Dr. Ray Shyan Wu	Chinese Taipei	(2009) Vice Chair (2014)
3.	Dr. Tian Fuqiang	China	Secretary (2014)
4.	Dr. Juan A. Rodriguez-Diaz	Spain	(2010)
5.	Prof. Dr. Choi, Jin-Yong	Korea	(2013)
6.	Dr. Nozar Ghahreman	Iran	(2015)
7.	Dr. Waleed Hassan M. Abou El Hassan	Egypt	(2015)
8.	Mr. Michael Davidson	USA	(2015)
9.	Dr. Guy Jobbins	UK	(2015)
10.	Mr. Mika Turunen	Finland	(2015)
11.	Eng. (Ms.) Talatha Janaki Meegstenna	Sri Lanka	Provisional Member (2016)
12.	Mr. Javeed Iqbal Bokhary	Pakistan	Provisional Member (2016)
13.	Mr. Sanjay Kumar Singh	India	Provisional Member (2016)
14.	Dr. (Ms.) Fransisca Mulyantari	Indonesia	Provisional Member (2016)
15.	Mr. Atin Kumar Tyagi – Direct Member, JISL	India	Provisional Member (2016)
16.	Mr. Hatem Hameed Hussein	Iraq	Provisional Member (2016)
17.	Mr. Jafer Kathom Alwan Alamiryi (Young Professional)	Iraq	Provisional Member (2016)
18.	WMO representative		Permanent Observer
19.	IWMI Representative		Permanent Observer
20.	FAO Representative		Permanent Observer

III.B.4 — WG-DROUGHT

No.	Members	Country	Remarks
1.	VPH Franklin E. Dimick,	USA	(2008) Chair (2009)
2.	Mr. Mohammad Sadegh Jafari	Iran	(2008) Vice Chair (2009)
3.	Mr. V.C. Ballard	Australia	Secretary (2012)
4.	VPH Ragab Ragab	UK	(2008)
5.	Dr. Graziano Ghinassi	Italy	(2008)
6.	Prof. Chang-Chi Cheng	Chinese Taipei	(2008)
7.	Dr. Takanori Nagano	Japan	(2011)
8.	Dr. Hakan Aksu	Turkey	Young Professional (2012)
9.	Mr. Sudhakar (Direct Member), JISL	India	(2015)
10.	Ms. Jianxin Mu	China	Provisional Member (2016)

III.B.5 — WG-ENV

No.	Members	Country	Remarks
1.	Dr. (Ms.) Charlotte de Fraiture	The Netherlands	(2015) Chair (2016)
2.	Prof. N. Hatcho	Japan	(2008) Vice Chair (2011)
3.	Dr. Sylvain Perret	France	(2010) Secretary (2016)
4.	Prof. Yih-Chi Tan	Chinese Taipei	(2008)
5.	Mr. Mohammad Kazem Siahi	Iran	(2008)
6.	Dr. Choi, Joong-Dae	Korea	(2008)
7.	Mr. V.C. Ballard	Australia	(2010)
8.	Mr. Ahmed Mohammad Aziz	Iraq	(2011)
9.	Dr. Aynur Fayrap	Turkey	(2012)
10.	Ir. Mohd Azmi Ismail	Malaysia	(2013)
11.	Dr. Muhammad Basharat Chaudhry	Pakistan	(2015)
12.	Dr. Fuqiang Tian	China	(2015)
13.	Ms. Seija Virtanen	Finland	(2015)
14.	Mr. Mohammad Samiul Ahsan Talucder (Direct Member)	Bangladesh	(2015)
15.	Dr. Yury Anatolyevich Mozhaiskii	Russia	(2016)
16.	Dr. (Ms.) Bai Jing (Young Professional)	China	Provisional Member (2016)
17.	Mr. H.K. Meena	India	Provisional Member (2016)
18.	Eng. (Ms.) P.M. Jayadeera	Sri Lanka	Provisional Member (2016)
19.	Mr. Ahmed Kamil Hassani (Young Professional)	Iraq	Provisional Member (2016)
20.	Mr. Usamah Hashim Witwit	Iraq	Provisional Member (2016)

III.B.6 — WG-SDTA			
No.	Members	Country	Remarks
1.	Dr. Ruey-Chy Kao	Chinese Taipei	(2007) Chair (2011)
2.	Ir. Henk P. Ritzema	Netherlands	(2002) Vice Chair (2009)
3.	Dr. Hajime Tanji	Japan	Secretary (2013)
4.	Dr. (Ms) Hsiao-Weng Wang	Chinese Taipei	Young Professional (2010)
5.	Prof. Budi Santoso Wignyosukarto	Indonesia	(2011)
6.	Prof. Zhang Zhanyu	China	(2012)
7.	Ir. Hj. Nor Hisham bin Mohd Ghazali	Malaysia	(2012)
8.	Dr. Jeongryeol Jang	Korea	(2014)
9.	Mr. Anuj Kanwal	India	(2016)
10.	Eng. L.S. Sooriyabandara	Sri Lanka	Provisional Member (2016)
11.	Eng. Ibrahim Abbas Dawood (Young Professional)	Iraq	Provisional Member (2016)
12.	Eng. Ghanim Hameed Hassan Alhashimi	Iraq	Provisional Member (2016)
13.	Dr. Jo Jin Hoon	Korea	Permanent Observer
14.	Dr. Daeou Eo	Korea	Permanent Observer
15.	Mr. Robiyanto Hendro Susanto	Indonesia	Permanent Observer
16.	Mr. Harry Denecke (FAO)		Permanent Observer

III.K.1 — C-PR&P			
No.	Members	Country	Remarks
1.	VPH Larry D. Stephens	USA	Chair (1992)
2.	Ms. Anne Currey	Australia	(1998)
3.	PH Bart Schultz	The Netherlands	(2009)
4.	Dr. Yingduo Yu	China	(2012)
5.	Ms. Indica, Direct Member of WAPCOS (India) Limited	India	(2016)
6.	Mr. Oliver Taylor	UK	Provisional Member (2016)
7.	Ms. Sahar Norouzi	Iran	Provisional Member (2016)
8.	Mr. Hiyam Raad Adwan	Iraq	Provisional Member (2016)
9.	Mr. Satit Maneepai	Thailand	Observer

III.K.2 — WG-CDTE			
No.	Members	Country	Remarks
1.	Prof. Dr. Abdelhafid DEBBARH	Morocco	Chair (2015)
2.	Dr. Young D. Kim	Korea	Vice Chair (2015)
3.	Mr. Mirza Asif Baig	Pakistan	Provisional Member (2016)
4.	Dr. Nader Heydari	Iran	Provisional Member (2016)
5.	Eng. Abu Obieda Babiker Ahmed Hassan	Sudan	Provisional Member (2016)

6.	Mr. Ramesh Kumar	India	Provisional Member (2016)
7.	Mr. Hasan Basri Yuksel	Turkey	Provisional Member (2016)
8.	Ms Dahile Abdulqader Abdulhameed (YP)	Iraq	Provisional Member (2016)
9.	Mr. Raad F Amein Taha	Iraq	Provisional Member (2016)

III.K.3 — EB-JOUR			
No.	Members	Country	Remarks
1.	PH Bart Schultz	Netherlands	Chair (2002)
2.	Prof. Dr. Kristoph-Dietrich Kinzli P.E.	USA	(2010) Joint Editor (2012)
3.	Dr. Jiusheng Li	China	(2012) Joint Editor (2015)
4.	VPH Hector Malano	Australia	(2001) Editor Emeritus (2015)
5.	Dr. Bryan P. Thoreson	USA	Associate Editor (2001)
6.	Prof. Daniele de Wrachien	Italy	Associate Editor (2001)
7.	Prof. Yih Chi Tan	Chinese Taipei	Associate Editor (2006)
8.	Dr. Nick C. Van de Giesen	Netherlands	Associate Editor (2007)
9.	Dr. Marcel Kuper	France	Associate Editor (2009)
10.	Mr. Bernard Vincent	France	Associate Editor (2010)
11.	Dr. Takao Masumoto	Japan	Associate Editor (2011)
12.	Prof. Leon van Rensburg	South Africa	Associate Editor (2013)
13.	Dr. Biju George	Australia	Associate Editor (2013)
14.	Dr. Henk Ritzema	Netherlands	(2013) Associate Editor (2015)
15.	Prof. Waldo Ojeda-Bustamante	Mexico	(2014) Associate Editor
16.	Prof. Kendall C. DeJonge	USA	(2014) Associate Editor
17.	Prof. Saleh Taghvaejan	USA	(2014) Associate Editor
18.	Prof. Graziano Ghinassi	Italy	Associate Editor (2015)
19.	VPH Laszlo Hayde	Hungary	Associate Editor (2015)
20.	VPH Larry D. Stephens	USA	(2001)
21.	Dr. Muhammad Latif	Pakistan	(2002)
22.	Dr. Vijay Labhsetwar (ICID Central Office)	India	(2006)
23.	Dr. Yohei Sato	Japan	(2009)
24.	Prof. Ir. Dr. Mohd Amin bin Mohd Soom	Malaysia	(2009)
25.	Dr. Mohammad Javad Monem	Iran	(2011)
26.	Prof. Dr.-Ing. Klaus Rottcher	Germany	(2011)
27.	Prof. dr. Joong Dae, Choi	Korea	(2013)
28.	Mr. Brent Paterson	Canada	(2013)
29.	Ir. Simon Howarth	UK	(2014)
30.	Dr. Poolad Karimi	Iran	Associate Editor (2016)

III.K.4 — WG-HIST			
No.	Members	Country	Remarks
1.	Dr. Kamran Emami	Iran	Chair (2009)
2.	Prof. Dr. N. Hatcho	Japan	(1996)
3.	Mrs. Xuming Tan	China	(1997)
4.	VPH Laszlo Hayde	Hungary	(2001)
5.	VPH Hafied A. Gany	Indonesia	(2005)
6.	Mr. Charles L. Abernethy	UK	(2005)
7.	Prof. Jaekyoung Noh	Korea	(2014)
8.	VPH Chaiwat Prechawit	Thailand	(2014)
9.	Engr. Sirika Ahmad Abubakar	Nigeria	(2014)
10.	Mr. Antonio Linoli	Italy	(2014)
11.	VPH Gerhard Backeberg	South Africa	(2015)
12.	Prof. Dr. Abdul Sattar Shakir	Pakistan	(2015)
13.	Dr. Ing. Klaus Rottcher	Germany	Observer (2006)
14.	Dr. (Mrs.) B. Dolfing	The Netherlands	Permanent Observer
15.	IWHA representative - Dr. Ir. M. Ertsen	The Netherlands	Permanent Observer

III.K.5 — TF-VE			
No.	Members	Country	Remarks
1.	Dr. Kamran Emami	Iran	Chair (2013)
2.	Mrs. Remziye Yildiz Gulagaci	Turkey	Vice-Chair (2013)
3.	Ir. Nor Hisham M. Ghazali	Malaysia	Secretary (2013)
4.	VPH Francois Brelle	France	
5.	Mr. Suman Sijapati	Nepal	
6.	Dr. Toshihiko Kuno	Japan	
7.	Mr. Abijit Joshi (Direct Member), JISL	India	Provisional Member
8.	Mr. Yeolkar (Direct Member), JISL	India	Provisional Member

III.K.6 — TF-WWF8			
No.	Members	Country	Remarks
1.	PH Dr. Chandra Madramootoo	Canada	Chair (2015)
2.	PH Dr. Bart Schultz	Netherlands	(2015)
3.	VPH Dr. Shinsuke Ota	Japan	(2015)
4.	VP Dr. Bong Hoon Lee	Korea, Rep. of	(2015)
5.	VPH Laurie C. Tollefson	Canada	(2015)
6.	Dr. Somkiat Prajamwong	Thailand	(2015)
7.	MXCID representative	Mexico	(2015)
8.	Ing. Helvecio Mattana Saturnino	Brazil	(2015)
9.	Mr. Ali Reza Salamat	Iran	(2016)
10.	Dr. Amgad Elmahdi	Australia	Provisional Member (2016)
11.	Mr. Anuj Kanwal	India	Provisional Member (2016)
12.	Mr. Alaa Turki Khudhair Al-Masoodi	Iraq	Provisional Member (2016)
13.	Mr. Waleed Kh. Qassim Alhadidi (Young Professional)	Iraq	Provisional Member (2016)

14.	Er. Avinash C. Tyagi, Secretary General, Member Secretary		
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III.O.1 — WG-WATER & CROP			
No.	Members	Country	Remarks
1.	VPH Ragab Ragab	UK	Chair (2007)
2.	VPH Laurie C. Tollefson	Canada	Vice-Chair (2009)
3.	Dr. K. Yella Reddy	India	Secretary (2009)
4.	Prof. Dr. Mohd Amin Mohd Soom	Malaysia	(2011)
5.	Dr. Magdi T. Abdelhamid	Egypt	(2011)
6.	Mrs. Gao Hong	China	(2012)
7.	Prof. Dr. Allah Bakhsh	Pakistan	(2015)
8.	Ir. Adang Saf Ahmad	Indonesia	Provisional Member (2015)
9.	Dr. P. Soman (Direct Member), JISL	India	Provisional Member (2015)
10.	Dr. Nader Heydari	Iran	Provisional Member (2016)
11.	Dr. Wu Di	China	Provisional Member (2016)
12.	Ir. Abbas Fadhel Mohammed	Iraq	Provisional Member (2016)
13.	Ir. Shatha Salim Maged	Iraq	Provisional Member (YP) (2016)
14.	Mr. Syaiful Mahdi	Indonesia	Observer (2015)
15.	FAO representative		Permanent Observer
16.	CIGR representative - Mr. Herbert H. Van Lier		Permanent Observer
17.	Prof. D. Wrachien	Italy	Permanent Observer
18.	ICRISAT representative		Permanent Observer

III.O.2 — WG-PQW			
No.	Members	Country	Remarks
1.	VPH Samia El- Guindy	Egypt	Chair (2011)
2.	VPH R. Ragab	UK	(1997)
3.	VPH Karim Shiati	Iran	(1997)
4.	Dr. Leon van Rensburg	South Africa	(2010)
5.	Dr. Takanori Nagano	Japan	(2011)
6.	Dr. Tapas Kumar Biswas	Australia	(2012)
7.	Mr. Wu Wenyong	China	(2016)
8.	FAO Representative		Permanent Observer
9.	ICBA Representative	UAE	Permanent Observer

III.O.3 — WG-SON-FARM			
No.	Members	Country	Remarks
1.	Dr. A.K. Randev	India	(2005) Chair (2016)
2.	Mr. Carl Walters	Australia	(2015) Vice Chair (2016)

3.	Mr. Suman Sijapati	Nepal	(2013) Secretary (2016)
4.	VPH Jose A. Ortiz	Spain	(2003)
5.	Dr. Graziano Ghinassi	Italy	(2004)
6.	Mr. Hassan Shantia	Iran	(2006)
7.	Dr. Abraham Mehari Haile	The Netherlands	(2008)
8.	Mr. Mohd Yazid bin Abdullah	Malaysia	(2011)
9.	Dr. Akira Iwamoto	Japan	(2011)
10.	Dr. Chen, Ching-Tien	Chinese Taipei	(2012)
11.	Dr. Dickson Ahagbuje	Nigeria	(2014)
12.	Mr. Bashu Dev Lohanee	Nepal	(2015)
13.	Dr. Hossein Dehghani Sanij	Iran	(2015)
14.	Mr. Muhammad Tahir Anwar	Pakistan	(2015)
15.	Mr. S.P. Jadhav (Direct Member), JISL	India	(2015)
16.	Mr. Siboniso Phillip Mkhalihi	South Africa	(2016)
17.	Mr. Ömer Faruk Akbulut	Turkey	(2016)
18.	Mr. Yao Bin	China	Provisional Member (2016)
19.	Dr. Zhang Guohua (Young Professional)	China	Provisional Member (2016)
20.	Prof. Chang Eon Park	Korea, Rep. of	Provisional Member (2016)
21.	Eng. S. Mohanarajah	Sri Lanka	Provisional Member (2016)
22.	Mr. Suhad Jassim Obeed	Iraq	Provisional Member (2016)
23.	Mr. Hussein Shanan Abid Al-Hussein (Young Professional)	Iraq	Provisional Member (2016)
24.	Mr. Sher Singh	India	Observer (2016)
25.	Mr. M.S. Sudhakar (Direct Member), JISL	India	Observer (2015)
26.	Mr. Abijit Joshi (Direct Member), JISL	India	Observer (2015)
27.	Mr. Jano Anter	Germany	Observer (2011)
28.	Mr. Bruno Molle	France	Permanent Observer
29.	FAO Representative		Permanent Observer

III.S.1 — WG-IDM

No.	Members	Country	Remarks
1.	Ms. Mary Jean M. Gabriel	South Africa	(2015) Chair (2016)
2.	Mr. Ahmet Şeren	Turkey	Vice Chair (2016)
3.	Dr. Katsuyuki Shimizu	Japan	Secretary (2015)
4.	VPH Francois Brelle	France	(2015)
5.	Mr. Mohammad Kazem Siahi	Iran	Provisional Member (2015)
6.	Dr. Wu Jingwei	China	(2015)
7.	Ir. Mat Hussin Bin Ghani	Malaysia	(2015)

8.	Mr. Ming-Young Jan	Chinese Taipei	(2015)
9.	Mr. Waleed Hassan	Egypt	(2015)
10.	Dr. Amgad Elmahdi	Australia	(2015)
11.	Dr. Narges Zohrabi	Iran	(2015)
12.	Eng. Abd Elsalam Mohamed Salih Idriss	Sudan	Provisional Member (2016)
13.	Mr. G.L. Bansal	India	Provisional Member (2016)
14.	Dr. Hanan Hussien Abbood	Iraq	Provisional Member (2016)
15.	Ms. Maryam Naeem Odaa Al-Obaidy (Young Professional)	Iraq	Provisional Member (2016)
16.	VP Ian Makin	UK	Observer (2015)
17.	VPH Hafied Gany	Indonesia	Observer (2015)

III.S.2 — WG-IOA

No.	Members	Country	Remarks
1.	VPH Hafied A. Gany	Indonesia	(2014) Chair (2015)
2.	Dr. Kazumi Yamaoka	Japan	Vice Chair (2015)
3.	Mr. Madhav Belbase	Nepal	Secretary (2015)
4.	Mr. Hasan Basri Yuksel	Turkey	(2015)
5.	Mr. Philip J. Riddell	UK	(2015)
6.	Dr. Seong Joon Kim	Korea	(2015)
7.	VP Ding Kunlun	China	(2015)
8.	Mr. Franck Sanfilippo	France	(2015)
9.	VPH Franklin Dimick	USA	(2015)
10.	Mr. Abdullahi Abdul Rahman Ogole	Nigeria	(2015)
11.	Dr. Yu-Chuan Chang	Chinese Taipei	(2016)
12.	Mr. Houshang Hasouni Zadeh	Iran	Provisional Member (2016)
13.	Mr. Ghassan Lutfi Ahmed	Iraq	Provisional Member (2016)
14.	Eng. (Ms.) Hend Emad Abd-Alrahman Alhendy (Young Professional)	Iraq	Provisional Member (2016)

III.S.3 — WG-M&R

No.	Members	Country	Remarks
1.	VP Ian Makin	UK	Chair (2015)
2.	Dr. Dong Bin	China	(2014) Vice Chair (2015)
3.	Engr. Muhammad Sani Bala	Nigeria	Secretary (2015)
4.	Mr. Vyacheslav Rozhon	Ukraine	(2014)
5.	Mr. Mehrzad Ehsani	Iran	(2014)
6.	Ir. Eko Subekti	Indonesia	(2014)
7.	Dr. Yohei SATO	Japan	(2015)
8.	Mr. Bir Singh Dhami (Young Professional)	Nepal	(2015)
9.	Dr. Kwang-Sik Yoon	Korea	(2015)

10.	Mr. Mohd Yazid bin Abdullah	Malaysia	(2015)
11.	Ms. Meral Çiçek	Turkey	(2015)
12.	Mr. Puleng Mofokeng	South Africa	(2015)
13.	Dr. Brian T. Wahlin	USA	(2015)
14.	Mr. Usman-e-Ghani	Pakistan	Provisional Member (2016)
15.	Mr. Ali Omran Ali	Iraq	Provisional Member (2016)
16.	Mr. Firas Husain Ali (Young Professional)	Iraq	Provisional Member (2016)
17.	Mr. Alan Kendall Clark	UK	Permanent Observer (2015)
18.	FAO Representative- (Ms. Robina Wahaj)		Permanent Observer (2015)

III.S.4 — WG-SDRG

No.	Members	Country	Remarks
1.	Mr. Bernard Vincent	France	Chair (2013)
2.	Dr. Momon Sodik Imanudin	Indonesia	Vice Chair (2013)
3.	Dr. James Ayars	USA	(2013)
4.	VPH Brane Maticic	Slovenia	(2013)
5.	Mr. Chen Hung-Kwai	Chinese Taipei	(2013)
6.	VPH Shinsuke Ota	Japan	(2013)
7.	Dr. Yurii Yanko	Russia	(2013)
8.	Dr. Gurbachan Singh	India	(2013)
9.	Mr. Mati Tonismae	Estonia	(2013)
10.	Mr. Ardavan Azari	Iran	(2013)
11.	Ms. Helena Aijo	Finland	(2013)
12.	Dr. Ashraf El Sayed Ismail	Egypt	(2013)
13.	Ms. Wang Shaoli	China	(2013)
14.	Ir. Mohd Anuar Musardar bin Yusoff	Malaysia	(2013)
15.	Dr. M.N. Bhutta	Pakistan	(2013)
16.	Dr. Hajime Tanji	Japan	(2014)
17.	Prof. Ir. Robiyanto Hendro Susanto	Indonesia	(2014)
18.	Dr. Henk Ritzema	Netherlands	(2015)
19.	Mr. Krishna Prasad Rijal	Nepal	(2015)
20.	Mr. Yeolkar (Direct Member), JISL	India	(2015)
21.	Prof. Seong Joon Kim	Korea, Rep. of	(2016)
22.	Dr. (Ms.) Naoko Koshiyama	Japan	(2016)
23.	Dr. (Ms.) Bilge Omar	Turkey	(2016)
24.	Prof. Aidan Senzanje	South Africa	Provisional Member (2016)
25.	Mr. Raed Abbood Awad	Iraq	Provisional Member (2016)
26.	Mr. Amjed Mohammed Abbas (Young Professional)	Iraq	Provisional Member (2016)

III.S.5 — WG-WATS

No.	Members	Country	Remarks
1.	Mr. Mehrzad Ehsani	Iran	Chair (2015)
2.	VPH Adama Sangare	Mali	Vice Chair (2015)
3.	Mr. Mortaza Yazdekhasti (Young Professional)	Iran	Secretary (2016)
4.	Prof. (Ms.) Kyung-Sook Choi	Korea	(2015)
5.	VPH M. Hassan Amer	Egypt	(2015)
6.	Dr. Hassan Aboalbasher Ali	Sudan	(2015)
7.	Dr. P. Soman (Direct Member), JISL	India	(2015)
8.	Dr. Joe Stevens	South Africa	(2016)
9.	Ms. Jianxin Mu	China	(2016)
10.	Mr. Kamal Kumar Jangid	India	Provisional Member (2016)
11.	Mr. Yalçin Dalgın	Turkey	Provisional Member (2016)
12.	Mr. Dhuha Mahmood Hussein	Iraq	Provisional Member (2016)
13.	Mr. Mohammed Alaa Dheyaa (Young Professional)	Iraq	Provisional Member (2016)
14.	Mr. S.P. Jadhav (Direct Member), JISL	India	Observer (2015)
15.	Eng. S. Mohanarajah	Sri Lanka	Follow up with NC (2015)
16.	Mr. Abijit Joshi (Direct Member), JISL	India	Follow up with JISL (2015)
17.	IWMI Representative- Mr. Ian W. Makin	UK	Permanent Observer (2015)
18.	FAO Representative- (Ms. Robina Wahaj)		Permanent Observer

Note: Secretary General, ICID or his representative will be Member of each WG or TF.

Strategy Themes: B - Basin; K - Knowledge; O - On-Farm; S - Schemes



**BROAD RECOMMENDATIONS OF THE TASK FORCE ON
REVITALIZATION OF ICID NETWORK (TF-REV)**

Based on the information collected and evaluated by ICID in an effort to assist NCs to become viable and sustainable, the following recommendations are provided for NCs to consider. It is recognized that the construct of NCs is variable. Therefore not all recommendations may be applicable for each NC. Implementation of the applicable recommendations will assist the NCs to fulfil their respective mandates in light of SDGs and the new ICID vision.

1. On the interrelationships between ICID, the NCs and the national stakeholders engaged with AWM and the effectiveness of the network in fulfilling the new vision and the role of NCs of ICID vis a vis other professional organizations within the countries in water sector such as country water partnerships, the following measures are recommended:

- (a) review their constitution, membership and organization to broad-base their structure to include all stakeholders related to AWM in line with the Peter Lee Committee Report;
- (b) where feasible, broaden their scope to enable it to play a role in national rural development context in accordance with the new ICID vision;
- (c) develop proper linkages with the relevant government departments and ministries to serve as an inter-disciplinary exchange platform;
- (d) consider having a Management Committee and a general body with individual membership from across various AWM disciplines, departments and institutions;
- (e) improve their visibility at the National Level by organizing important technical events, say in the form of a Seminar on ICID Foundation Day or during the Annual general body meeting;
- (f) provide the mailing list of all their members (individual members, members of the National Committees, members of governing boards etc.) to the CO for seamless dissemination of information;
- (g) establish a communication systems with all their members and stakeholders; and
- (h) for those NCs which have lost their bearings due to re-organization of ministries and departments, the past and present ICID members from these countries should come together and make fresh efforts keeping the above points in view.

2. In respect of long-term financial sustainability of the NCs and for improving the profile of NCs within the countries, the following recommendations are provided:

- (a) consider tapping the private sector from their country, particularly those in international consultancy and development works, in making their NCs financially sustainable and less dependent of government support;
- (b) explore the possibility of getting development agencies on board;
- (c) to showcase their activities and provide platform for networking etc. consider organizing at least one annual event;
- (d) inform NC members of dual membership (NC as well as ICID) with a single subscription;
- (e) undertake professional activities to raise resources jointly with other water sector professional groupings;
- (f) maintain a proper information and dissemination mechanism; and
- (g) be proactive and provide strategic advice to governments based on sharing of international experiences through ICID network.

3. Regarding the TOR on the reasons for the withdrawal of the European NCs in the recent past, the TF recommends that the term of the Task Force be extended for one more year to analyse the reasons and make recommendations.



**Report of the 37th Meeting of the
PERMANENT FINANCE COMMITTEE (PFC)
10 November 2016: 09.00-10.30 hours (Session I)
10 November 2016: 11.00-12.30 hours (Session II)
Chiang Mai, Thailand**

Members Present: (1) Vice President Laurie Tollefson, Chairman (Canada, 2013); (2) President Hon. Prof. Dr. Bart Schultz (The Netherlands, 2011); (3) Ms. Serpil Koylu Dalgin (Turkey, 2012); (4) Mr. Naoki Hayashida (Japan, 2014); (5) Dr. Irene Bondarik (Russia, 2014); (6) Mr. Alireza Salamat (Iran, 2016) and (7) Er. Avinash C. Tyagi, Secretary General, ICID.

Observers Present: (i) President Hon. Peter Lee (UK); (ii) Vice President Dr. Hüseyin Gundogdu (Turkey); (iii) Mr. Anuj Kanwal (India); (iv) Secretary Mr. Bashu Dev Lohanee (Nepal); (v) Vice President Mr. Madhav Belbase (Nepal); (vi) Mr. Jean-Yves Grosclaude (France); (vii) Mr. Carl Walters (Australia); (viii) Chairman Mr. Stephen Mills (Australia); (ix) Mr. Warren Hegason (Canada); (x) Vice President Ian William Makin (UK); (xi) Mr. Mikaeil Hosseini (Iran); (xii) Secretary General Mr. Marco Arcieri (Italy); (xiii) Mr. Kirsty Winning (Australia)??; (xiv) Chief Executive Officer Mr. Bryan Ward (Australia); (xv) Mr. Syaiful Mahdi Naumin (Indonesia); (xvi) Prof. Dr. Tsugihiko Watanabe (Japan); (xvii) Mr. Bilge Omar (Turkey); (xviii) Mr. Ashrof Makvandi (Iran); (xix) Mr. Iraj Heidariyan (Iran); (xx) Vice President Hon. Mr. Felix Britz Reinders, ICID (South Africa); (xxi) Secretary General, Masao Miyazaki (Japan); (xxii) Mr. Narges Zohrabi (Iran)

General Note: Conversion rate of US\$ versus ₹ (Indian Rupee) used in the budget and forecasts –

1. A conversion rate of US\$1 = ₹ 62 was assumed in the forecast for year 2015-16 on the basis of exchange rate in the preceding 15 months of 2014-2015. Subscriptions actually received were converted based on the prevailing exchange rates. The difference in the budgeted receipts and the actual receipts due to change in exchange rate are accounted for as part of 'other receipts'.
2. Based upon average exchange rate of US \$ and ₹ for the last fifteen months from April 2015 to June 2016, an exchange rate of US\$1 = ₹ 66 has been assumed for the Revised Budget (proposed) for the year 2016-17, Budget for Financial Year 2017-18 and Preliminary Budget for 2018-19 and Forecasted budget for the Financial Years 2019-2020.

PFC Minutes Item 1: Review of the Membership of the Committee

3. The Committee recommended for the approval of membership of Mr. Alireza Salamat to the PFC as nominated by Iranian National Committee on Irrigation and Drainage (IRNCID) for 6 years term.
4. In view of the absence of Mr. Hazim Ibrahim Othman Mohammed, nominated by Iraq National Committee (IRQCID) PFC recommended his membership to PFC as provisional.

PFC Minutes Item 2: Report of the Direct Membership Administering Sub - Committee

5. Based on the report of DMA Sub-committee, the PFC recommends to IEC for acceptance of the following as Direct Members of ICID.

Sl. No.	Name of Applicants	Country	Category	Duration of membership
1.	Dr. Ashish Pandey	India	Individual	Life Membership
2.	Prof. Umesh C. Chauebe	India	Individual (Retiree)	Life Membership
3.	Asian Development Bank (ADB)	Philippines	Institution	1 Year
4	Dr. R. Mahesh	India	Individual (Young Professional)	1 Year
5	Central Board of Irrigation and Power (CBIP)	India	Institution	1 Year

6. Secretary General informed that Direct Membership with the present fee structure is not financially profitable, however, it fulfils one of the requirements to make the ICID network more inclusive by offering chance to those institutions and individuals who cannot be part of the network through the NCs. As such, he pointed out, there has not been any special drive for getting more direct members. Members appreciated the efforts put in by Central

Office to get Asian Development Bank as member. The Committee stressed the need for inviting other regional and other financial institutions to be part of ICID by taking direct membership. Secretary General sought the opinion of the Committee whether the membership of the institutions could be taken for longer duration. Members feel that three years membership is sufficient.

PFC Minutes Item 3: Review of the position of arrears of annual subscriptions from NCs and Membership status

7. PFC noted with regret that the Czech National Committee has not cleared its subscription dues for the years 2013, 2014 and 2015. PFC recommended that Czech may be given the last chance to clear their dues by 31 December 2016, failing which they may be relegated to become “Associate Member” with effect from 1 January 2017.

8. Since National Committees Brazil, Italy, Malaysia, Nigeria, Saudi Arab, and Spain have not cleared their outstanding dues of two years, in addition to the current year i.e., 2016, PFC considered and recommended IEC to apply By-law 13.1 debarring the National Committee from holding office – whether it be as Office Bearer or as a member of a work body until such time the arrears are paid.

9. PFC noted that **Somalia (SONCID) (applied for membership)** National Committee of ICID has paid US\$ 1,827 towards membership subscription for the year 2017, calculated on the existing formulae, as an advance subscription. PFC recommends to IEC to admit Somalia as a new member of ICID commencing its membership w.e.f. 01.01.2017. The Committee also recommends to place on record its appreciation of Somalia for paying the advance subscription of 2017. The PFC also noted the appreciation of FAO for sponsoring Somalian Subscription in advance for 2017.

PFC Minutes Item 4: Review of the financial status of recently held ICID events

PFC Minutes Item 4.1. 66th IEC and 26th ERC Meeting held at Montpellier, France in October 2015

10. PFC thanked the French National Committee on Irrigation and Drainage (AFEID) for making special contribution to ICID budget amounting to the tune of Euro € 29,317 as 15% share from the registration fees collected (Euro € 195,444) from the 66th IEC Meeting and 26th ERC held in Montpellier, France, in October 2015. The Committee recommends that IEC may like to record its appreciation to AFEID.

PFC Minutes Item 4.2. 4th African Regional Conference on Irrigation and Drainage held at Cairo, Egypt during 26-28 April 2016

11. PFC noted that the financial support of about (US\$ 40,000) to Egyptian National Committee (ENCID) was provided for organizing the Training Program for Young Professionals from Africa on ‘On-farm water use and management’ from 17-25 April 2016 in Cairo, Egypt and their participation in 4th African Regional Conference. The Committee also thanked the Egyptian National Committee (ENCID) for facilitating organization of the Training Program.

PFC Minutes Item 5: Financial proposals for the forthcoming ICID events

12. PFC was informed that the Management Board had already allowed IRNCID to reduce the registration fee for the 13th International Drainage Workshop 04-07 March 2017, Ahvaz City, Iran, as they had requested in March 2016. It was clarified that ICID, as a policy was in favour of keeping the registration fees for ICID events.

13. Some members raised the issue of high registration fee for the ICID events, which they expressed was responsible for some of the participants, particularly from developing countries, unable to join the events. It was pointed out that the registration fee in ICID for the last five years have remained almost constant, and that it was largely up to the host NCs to appropriately fix the registration fee keeping other expenditure and revenues for the event in mind.

14. PFC recommended IEC to approve the following financial proposals, including fee structure of the host NCs; IRNCID for the 13th IDW; MXCID for 68th IEC and 23rd Congress, 8-14 October 2017, Mexico City, Mexico,. PFC considered the financial proposal presented by the host NCs for the events that have been already been approved by IEC in its earlier meetings in respect of 8th Asian Regional Conference, Kathmandu, Nepal, 2018 by NENCID; for the 69th IEC and Regional Conference in Saskatoon, Canada in 2018 by CANCID; and for the 9th International Micro Irrigation Conference at Aurangabad, India in February, 2019 by INCSW. It was pointed out that the any concession offered by the host NC for Early Bird Registration would be over the Full Registration.

Year	2017	2017	2018	2018	2019
Venue	Ahvaz City, Iran	Mexico City, Mexico	Kathmandu, Nepal	Saskatoon, Canada	Aurangabad, India
Event	13 th IDW	68 th IEC and 23 rd Congress	8 th ARC	69 th IEC and Regional Conference	9 th IMIC
	Rate	Rate	Rate	Rate	Rate
Full registration	\$350	\$800	\$500	\$ 750	\$500
Non-member fee	\$ 400		\$650		
Young Professionals (International)	\$175	\$400	\$250	\$ 375	\$250
Retired professionals (International)	\$150	\$ 400	\$ 250	\$ 375	\$250
Accompanying Persons (International)	\$150	\$ 300	\$ 150	\$ 300	\$200
Local/Delegates	\$150	\$ 500	\$ 150	\$ 400	\$200
Young Professionals (Local)	\$ 100				\$100

15. PFC also considered the financial proposals presented by IRNCID and INACID representatives for hosting the 3rd WIF and 70th IEC in 2019 in Tehran and Bali respectively. The PFC was also presented the financial proposal for the 71st IEC and 24th Congress proposed to be hosted in Sydney, Australia, by Australia National Committee on Irrigation and Drainage (IAL). PFC noted the following fee structure for these events as follows, subject to approval of the events by IEC.

Year	2019	2019	2019	2020
Venue	Aurangabad, India	Tehran, Iran	Bali, Indonesia	Sydney, Australia
Event	9 th IMIS	70 th IEC and 3 rd WIF	70 th IEC and 3 rd WIF	71 st IEC and 24 th Congress
	Rate	Rate	Rate	Rate
Full registration	\$500	\$ 750	\$800	\$800
Non-member fee				\$ 900
Young Professionals (International)	\$250	\$ 375	\$400	\$400
Young Professionals (Local)	\$100	\$ 100		
Local Delegates	\$200	\$ 200	\$200	\$800
Retired professionals (International)	\$250	\$ 375	\$400	\$400
Retired professionals (Local)	\$100			
Accompanying Persons (International)	\$200	\$ 300	\$300	\$ 300
Accompanying Persons (Local)	\$100			

PFC Minutes Item 6: To discuss the audited accounts of ICID for the year 2015-16 and recommend to the IEC

16. The Committee considered the Audit Report of M/s P.K. Chopra & Co., Statutory Auditors for the financial year 2015-16 presented in **Annex R1.1, page 13**. On a query from the members, Secretary General informed that almost two-third of the revenues are contributed by the income from the rent of office building. The PFC recommended the Audit Report for the FY 2015-16 submitted by M/s P.K. Chopra & Co., for approval.

17. The Committee was informed that the arrears of subscriptions during the current year represent the time lag in remittance of subscription by NCs which is normal. The Committee was informed that in the Financial Statement published in the Annual Report, from the next year, the Balance Sheet would include Income and Expenditure Account as well as Receipt and Payment Account.

18. The Committee was informed that the current Foreign Currency Account in HSBC Bank in London, is presently non-operative as some difficulties are being faced in getting the changes made in the signatories despite best efforts (Refer Minutes of 36th PFC, Item No. 11.2).

19. PFC noted that the Receipts and Payment Account of the ICID Employees Provident Fund Trust for the year 2015-16 were also audited by the auditors. SG informed that these accounts are being presented to PFC/IEC after a long gap. He pointed out that due to this there has been some kind of slackness. It was pointed out that some discrepancies pointed out are being attended to. SG pointed out that the audit of the Employees Provident Fund Trust is being placed before the PFC as the IEC through PFC has to keep a watch on the Employee welfare.

PFC Minutes Item 7: Budget and Actual Payments for the financial year 2015-16

20. The Committee noted that there has been an overall surplus of Rs. 7.75 million against a surplus of Rs. 1.19 million as envisaged in the revised budget for 2015-16 due to higher receipts mainly due to the favourable exchange rate and contribution from AFEID against its registration fee share of the 66th IEC and 26th ERC meeting held at Montpellier, France.

21. The Committee noted that during the financial year 2015-16 an amount of US\$ 50,000 was received as grant from the Ministry of Water Resources, China in four tranches for certain specified activities such as supporting Young Professionals and selected delegates from developing and least developed countries to attend meetings of ICID, Support to translation of the English version of Multilingual Technical Dictionary (MTD) of Irrigation and Drainage in Chinese and publishing the Chinese version, etc. Further, a sum of US\$ 13,480 was also received during the F.Y. 2015-2016 as Special Member contribution from Ministry of Water Resources, China towards the fulfilling of ICID's Mission. The Committee recorded its appreciation to CNCID for the grants provided for specified activities of ICID.

22. The Committee also noted that during the financial year 2015-16, a sum of US\$ 10,000 was also received as a grant from Korean National Committee of ICID (KCID), for specific activities such as modernization of library services, upgradation of web services and upgradation of computer hardware & software, the Training Workshop for Young Professionals on Integrated Flood Management during 66th IEC in Montpellier. PFC also recorded its appreciation to KCID for their support.

23. The committee also noted that during the financial year 2015-16, US\$ 20,156 was received as grants from Korean National Committee (KCID) through Korean Rural Community Corporation (KRC) for the supporting a Fact Finding Mission to Democratic Republic of Korea with a view to develop "Capacity Development Strategy for Agriculture Water Management" at the request of the DPRK Embassy in New Delhi. A sum of Rs. 0.43 million (US\$ 7,029) was also received from KCID for supporting YPs from Africa to attend Training program and 4th ARC in April, 2016 in Egypt. PFC also recorded its appreciation to KCID for their support.

24. Further a sum of US & 10,000 that is US\$ 5,000 each have been received from Korean National Committee and Chinese National Committee for supporting the publication of Special issue of ICID Journal on Sustainable Development Tidal Areas (SDTA).

25. The Committee also noted that during the financial year 2015-16, an amount of CHF 15000 (~US\$ 16,000) was received as grant from the World Meteorological Organization (WMO), Switzerland for supporting organization of 2nd Climate Services User Forum of Water Sector in South Asia (The Water Forum) which was held in Dhaka, Bangladesh in April 2015. Further a sum of US\$ 14,700 was also received during the F.Y. 2015-2016 as a grant from World Meteorological Organization (WMO), Switzerland for the Training Workshop for Young Professionals on Integrated Flood Management during 66th IEC in Montpellier. PFC also recorded its appreciation to WMO for their support.

PFC Minutes Item 8: To consider revised budget proposal for the current FY 2016-2017; budget proposal for FY 2017-2018; proposal for preliminary budgets for FY 2018-2019 and forecast budget for FY 2019-2020

26. The Committee was informed that Central Office is operating with 17 staff members. It may be pointed out that despite the new activities being undertaken and proposed to be undertaken during the next financial year, the work is being accomplished through the existing staff and partly by hiring the services of consultants on temporary basis. During the FY 2015-16, an amount of INR₹ 25.77 million (US\$ 390,348) is budgeted for staff salary for the FY 2016-2017 which includes INR₹ 2.00 million (US\$ 30,303) estimated to be paid to short-term consultants engaged on temporary basis, as their professional fee, for specific jobs.

27. Budget provision include payments due to anticipated revision of salary structure to be undertaken in the light of the revised pay structure of government employees in India, which ICID has to be guided by. An increase of about thirty per cent is assumed due to the anticipated pay increments and inflation as. The revision of the pay scales of CO staff is being taken up separately through the Staff Committee and will be presented to PFC thereafter.

28. It was pointed out that higher allocation has been made towards payment to Land & Development Office (L&DO) which is 10% of the total rental receipts from let out property to M/s Yes Bank and the higher Property Tax, which is calculated based on the total rent, has also increased. The provisions also include arrears of property tax not fully paid during the FYs 2010-2011, 2011-2012 & 2012-2013.

29. The Committee was informed that revised amount of INR₹ 2.90 million (US\$ 43,939) has been provided against an original provision of INR₹ 2.0 million for this financial year for organization of workshops, trainings and studies.

30. The Committee considered the revised budget for the FY 2016-2017 and recommended it to be approved. However, the provision for salaries on the revised rates shall be effected only after the report of the Pay Committee is accepted and approved by IEC.

31. The Committee also considered the budget proposal for the FYs 2017-2018, preliminary budget for 2018-2019 and forecast budget for 2019-2020 as presented at **Annex R1.2, page 17**.

32. The Committee recommends to IEC for the acceptance of the revised budget for FY 2016-2017 and the proposed budget for FY 2017-2018, preliminary budget for FY 2018-2019 and forecast budget for 2019-2020 by IEC as presented in **Annex R1.2, page 17**.

PFC Minutes Item 9: Surplus / Deficit and Cash Reserve

33. The Committee noted that there is likelihood of a surplus of INR₹ 0.36 million for the FY 2016-2017. Also INR₹ 2.01 million, INR₹ 0.47 million and INR₹ 5.67 million are expected to be surplus for the FY 2017-2018, FY 2018-2019 and FY 2019-2020 respectively. PFC was informed that the total Cash Reserves as at the beginning of the FY 2016-17 is INR₹ 18.28 million. The Committee realized that this is not a very healthy sign for the financial sustainability of any organization and recommended that after meeting all the liabilities the Cash Reserve may be allowed to be build up at least equal to the estimated annual payments.

PFC Minutes Item 10: Report of the Task Force on Revitalization of ICID Network

34. The Chairman, VPH Dr. Huseyin Gundogdu of Task Force of Revitalization of ICID Network, will present the report during the 37th PFC meeting of 67th IEC at Chiang Mai, Thailand.

PFC Minutes Item 11: Interim report of the Task Force on Review of Annual Subscriptions

35. The Chairman, VPH Laurie Tollefson has been reviewing the Membership Structure and Annual Membership Subscription Formulae and will present the report during the 37th PFC meeting of 67th IEC at Chiang Mai, Thailand.

36. The Committee noted that on the recommendation of 36th PFC meeting, IEC at its the 66th meeting held at Montpellier decided to set up a Task Force to Review the Membership Structure and Annual Subscription Formulae (Res IEC-1/66). The T.F. held its first virtual meeting on 29 June 2016 and directed SG to undertake in-depth analysis for a long term financial sustainability of ICID, of the major components of income: annual membership subscription, ICID share from the events, interest from investments and part lease of the CO building. The TF agreed to the SG's suggestions of engaging a consultant to develop a resource mobilization strategy for

ICID and its long-term financial sustainability. The Committee was informed that TF plans to finalize its report by April/May 2017. The interim report of TF will be presented by Chair PFC.

PFC Minutes Item 12: Any other items

37. The Committee was informed that as per the latest guidelines of Reserve Bank of India and Foreign Contribution Regulation Act (FCRA) Rules & Regulation in India, an institution cannot hold more than one account and hence the ICID Central office US Dollar Account No. 015741000002 and Euro Account No. 0157243000001 are being closed w.e.f. 1st January 2017. FCRA designated current account 0157201000032 will now be the ONLY account with details of address, SWIFT nos etc as given below will be in operation w.e.f. 1st January 2017.

38. PFC urged all National Committees to transfer their remittances as per details given in the table below. Alternatively, they can send their remittance by Bank Draft in favour of INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE, payable at New Delhi, India.

When Remitting in US\$	When Remitting in Euros
<p>Current A/c No. 0157201000032 International Commission on Irrigation and Drainage Canara Bank Diplomatic Enclave Branch Chanakyapuri NEW DELHI - 110021 INDIA</p> <p>SWIFT Code: CNRBINBDFS Through Acct No. 6550791917 of Canara Bank, International Division, Mumbai (SWIFT Code: CNRBINBBID) with Bank of America, NY (SWIFT Code: BOFAUS3N)</p>	<p>Current A/c No. 0157201000032 International Commission on Irrigation and Drainage Canara Bank Diplomatic Enclave Branch Chanakyapuri NEW DELHI - 110021 INDIA</p> <p>SWIFT Code: CNRBINBDFS Through Acct No. 40087502001 of Canara Bank, International Division, Mumbai (SWIFT Code: CNRBINBBID) with COMMERZ bank, Frankfurt (SWIFT Code: COBADEFF)</p>

Note: Both accounts as above are the same except the SWIFT Code in the last line.



Report of the 27th Meeting of the
PERMANENT COMMITTEE ON STRATEGY AND ORGANIZATION (PCSO)
 10 November 2016, 13.30-17.00 hours
 Chiang Mai, Thailand

Mandate: The Permanent Committee on Strategy and Organization (PCSO) shall be concerned with increasing the number of member countries and assisting the National Committees to become more active in their own countries to achieve the goals set for them from time to time by the Council. The Committee will also coordinate the activities of Vice Presidents (Resolution IEC-3/66)

Members Present: (1) Vice President Hon. Dr. Hüseyin Gündoğdu, Chairman (Turkey, 2012); (2) Vice President Hon. Mr. Laurie C. Tollefson (Canada, 2012); (3) Vice President Hon. Mr. François Brelle (France, 2012); (4) Vice President Dr. Ir. Basuki Hadimoeljono (Indonesia, 2013); (5) Vice President Mr. Kadhim Mohsin Ahmed (Iraq, 2013); (6) Vice President Er A.B. Pandya (India, 2013); (7) Vice President Dr. Mohamed Abd-El-Moneim Wahba (Egypt, 2014); (8) Vice President Dr. Ding Kunlun (China, 2014); (9) Vice President Bong Hoon Lee (Korea, 2014); (10) Vice President Prof. Dr. Charlotte de Fraiture (The Netherlands, 2015); (11) Vice President Mr. Ian William Makin (UK, 2015); (12) Vice President Prof. Dr. Abdelhafid Debbah (Morocco, 2015) and (13) Er. Avinash C. Tyagi, Secretary General, ICID.

Ex-Officio Members Present: (1) Chairman, African Regional Working Group (AFRWG); (2) Chairman, European Regional Working Group (ERWG); (3) Chairman, Asian Regional Working Group (ASRWG); (4) Convener, ICID Young Professional's e-Forum (IYPeF); (5) Chairman, Committee on Congresses/Conferences (C-CONGR) and (6) Chairman, Working Group on Irrigation and Drainage in States under Socio-Economic Transformation (WG-IDSST).

PCSO Minutes Item 1: ATR on the Minutes of the 26th Meeting of PCSO

1. The Committee noted the Action Taken Report.

PCSO Minutes Item 2: Membership of PCSO and its Workbodies

2. Based on the recommendations of the various workbodies associated with it, PCSO reviewed the membership and recommended for acceptance by IEC. Consequent upon the acceptance by the Council, an updated consolidated membership of all workbodies, including those of PCSO and its workbodies, is given in **Annex 5 (page 33)**.
3. In terms of ICID By-law 3.9.5 (c), the Committee was informed that VP Bong Hoon Lee (Korea) had been designated as the Chairperson of PCSO, which was subsequently approved by IEC. The Chairperson shall serve the Committee during his tenure of membership of the Committee.
4. In order to give fillip to the increasing involvement of Young Professionals in ICID activities, the PCSO nominated Ms. Kathleen Heuval, the Coordinator of IYPeF (Ref: Item 8.2) as Vice Chairman for the Committee.

PCSO Minutes Item 3: Membership of ICID

PCSO Minutes Item 3.1: Status of ICID Memberships and Reactivation of Associate Members

5. The Committee recommended that membership application of Somalia be accepted for membership of ICID, as supported by PFC. The Committee recorded its special appreciation to FAO for promoting ICID in African countries, which resulted in the membership of Somalia. The Committee noted that the Czech NC is likely to become 'Associate Member' with effect from 01 January 2017, if they do not pay their subscription arrears by then.

PCSO Minutes Item 3.2: Vice Presidents' reports: Strengthening regional cooperation and activities of National Committees

6. The Committee noted the role of Vice Presidents in strengthening the regional cooperation and activities of National Committees allocated to them and expressed its satisfaction. The Committee appreciated the efforts of Royal Irrigation Department of THAICID, INACID, KCID and CNCID for their efforts in furthering the membership of ICID through their government contacts.

PCSO Minutes Item 3.3: Recommendations of the Direct Membership Administering (DMA) – Sub Committee

7. The Committee noted the recommendations of DMA Sub-Committee of PFC's recommendation for the Direct membership of five new members, particularly the Asian Development Bank and recommended that more financial institutions and regional banks may be approached soliciting their membership in ICID as direct members.

PCSO Minutes Item 3.4: Task Force on Revitalization of ICID Network (TF-REV)

8. It was recalled that the report had already been presented informally at the Presidents Get-together on 7th November and formal and informal discussions had been held at various fora. The Committee considered the report presented by the Chair of TF-REV, VPH Dr. Huseyin Gundogdu and re-emphasized that NCs are the backbone of ICID. It was recalled that as part of the work of CG for drawing up an Action Plan 2030, a questionnaire had been circulated to all the NCs to get their inputs in order to analyze the role being played by the NCs within the water sector in the country, the administrative, legal and financial set up of the NCs and the networking and dissemination being used by the NCs. It was pointed out that only 22 NCs had provided the requisite information.

9. Based on this limited inputs TF had prepared certain recommendations. However, the TF during its meeting just before the commencement of WIF2 had reviewed the situation and had recommended that more time may have to be given to the NCs for providing their inputs. Broad recommendations of the TF-REV which have been reviewed are presented in **Annex 6 (page 40)** and are recommended by PCSO for Council's approval (and subsequently approved by IEC). PCSO reiterated that implementation of the applicable recommendations will assist the NCs to fulfil their respective mandates in light of SDGs and the new ICID vision. PCSO, based on the request of members and reported by TF-REV, recommended extension of the term of the TF for another year (later approved by the IEC).

PCSO Minutes Item 4: ICID Vision 2030 – ICID Action Plan 2030

10. The Committee was informed that Consultative Group, established to chalk out a Vision and subsequently requested to draw up an Action Plan had invited inputs from the NCs and WGs for the Action Plan. It was also informed that very limited inputs were received from NCs (as reported in Item 3 above) as well as Working Groups. It was recalled that the actions to convert vision to actions and meeting the requirements of the NCs have to be essentially undertaken by the WGs. Considering the limited inputs (from 4 WGs), an item for discussion was included in the Agenda of all WGs. The Draft Action Plan 2030 developed by CG and presented at the meeting was therefore limited in scope. Expecting inputs from various WGs and inputs from NCs the Committee decided not to present the Action Plan to IEC in its present form. At the same time members were of the view that the exercise for developing the Action Plan should not be allowed to linger on. PCSO therefore, agreed to recommend the following way forward with the time schedule as indicated below (which was subsequently approved by the IEC).

- | | | |
|-----|-----------------|--|
| (a) | 15 January 2017 | New inputs from NC and WGs |
| (b) | 1 March 2017 | CG to finalize 2nd draft of the Action Plan 2030 and send for MB approval |
| (c) | 15 March 2017 | Approval by MB of 2nd draft Action Plan |
| (d) | 1 April 2017 | Send approved 2nd draft of the Action Plan to all NCs for their comments and suggestion, if any within 45 days |
| (e) | 15 May 2017 | Finalization and approval of revised Action Plan 2030 incorporating suggestions and comments of NCs and its |
| (f) | June 2017 | Approval of the Action Plan 2030 by the Management Board |

PCSO Minutes Item 5: International Research Program for Irrigation and Drainage (IRPID) Scheme

11. President Dr. Saeed Nairizi, intervening on behalf of VPH Felix Reinders, Chair of the Advisory Committee on IRPID, emphasized the need for ICID and its NCs to be more pro-active in terms of the direction of research in the field of Irrigation and Drainage. He emphasized the need for the network of Regional Nodes (RNs) under IRPID to be expanded and pointed out that, in accordance with the original concept, these RNs can be covering geographical regions as well as also be thematic topics. He also pointed out that as first step the member NCs of the RNs should help collect information about the research institutions engaged in AWM within their countries as the first step. In the second step, information on the research projects they are engaged, need to be listed. This information could be shared on a web page of ICID. There were no objection to the IRPID Scheme approved by MB which was presented to IEC's for its consideration subsequently. IEC after discussion approved the scheme.

PCSO Minutes Item 6: Collaboration and Cooperation between ICID and other International Organizations

12. The Committee appreciated the increasing cooperation with International Organizations and collaborative activities undertaken during the year 2015-16 benefitting a number of ICID member countries in Africa, Asia and European regions.

13. The Committee appreciated ICID for the initiation of World Water Systems Heritage (WSH) program in collaboration with the World Water Council, which will be launched in November 2016 at Marseille, France during WWC's 20th anniversary celebrations and 60th Board of Governors (BoG) meeting.

14. The Committee noted the memorandum of understanding (MoU) signed between ICID and IWA for cooperation at NC level in Iran in September 2016 on the use of wastewater for agriculture and encouraged the concerned Working Groups for cooperation with IWA.

15. PCSO also noted the renewed interest of the World Bank to work with ICID and its NCs, particularly for their enhanced participation in the 23rd Congress. It also advised to continue cooperation initiated with the Commonwealth Scientific and Industrial Research Organization (CSIRO), Australia and also recommended to initiate cooperation with the Australian Council of Agriculture Research. The Committee appreciated the efforts of the Secretary General and the President for their efforts to broaden the cooperation with international and regional organizations. However, it cautioned that whenever inviting the partner organizations to ICID meetings, they be informed of the sensitive relationship and understanding regarding the Chinese National Committee and the Chinese Taipei Committee.

PCSO Minutes Item 7: Review of reports of Regional Working Groups (RWGs)**PCSO Minutes Item 7.1: African Regional Working Group (AFRWG)**

16. Dr. Mohammad Wahba, Chair-elect of AFRWG presented the report of the Group. The Committee noted efforts of the AFRWG in the direction of capacity building of professionals from Africa, expansion of membership of the group through Southern African Regional Irrigation Association (SARIA) and other regional associations etc.

PCSO Minutes Item 7.2: European Regional Working Group (ERWG)

17. VP Ian Makin, Chair of ERWG presented its report and based on the report, the Committee recommended that the term for the TF- REV may be extended by one year, which was later approved by IEC, in order to collect additional information from NCs and that the report of the TF to be presented at 67th IEC be considered as an interim-report.

PCSO Minutes Item 7.3: Asian Regional Working Group (ASRWG)

~~18.~~ VPH Dr. Karim Shiati, Chair of ASRWG presented his report of ASRWG and highlighted the regional cooperation among the CTCID, INACID and MANCID, collaboration with PAWEES and contribution to special issue of the Journal of the African – Asian Rural Development Organization (AARDO). The WG will bring out its technical report in 2017 as well. The Nepal National Committee will be hosting the 8th Asian regional Conference in 2018. The PCSO appreciated the activities of the WG and accepted the memberships of Mr. Jaraev (Uzbekistan) and Prof Wang Aiguo in place of Mr. Wang Xiadong (China).

PCSO Minutes Item 8: Review of reports of Working Groups/Committees**PCSO Agenda Item 8.1: Working Group on Irrigation and Drainage in States Under Socio-Economic Transformation (WG-IDSST)**

19. Presenting the report on behalf of the Chair, SG informed that the Group has decided that every year each country prepare/compile/ share information about existing situation in respect of development of irrigation and drainage which should be published through ICID web pages and other available web site such as SIC-ICWC. The Group requested Central Office to provide financial support for e-publication and translation in English. The WG also proposed organization of a regional workshop and training in 2017. The Group also presented the "Scoping Document" with a new mandate for period 2016 – 2021. The Committee has recommended the new mandate and tenure as above after due process of circulating it to the concerned NCs to ascertain their interest.

PCSO Agenda Item 8.2: Committee on Congresses/Conferences (C-CONGR)

20. Presenting the report on behalf of Mr. Luis Pimentel, Dr. Luis Felipe Alcocer (Mexico) presented its report highlighting the successful organization of the WIF2 at Chaing Mai and the past events such as 22nd Congress in Korea and 26th ERC in France. Dr. Alcocer informed that Iran (2017), Mexico (2017), Canada (2018) and India (2019) have made impressive preparations for their respective events. Iran and Indonesia, both wanted to host the WIF3 in 2019 (Indonesia has since bagged the honor of hosting WIF3 in 2019). The Australian National Committee wanted to host the 24th Congress and has since bagged the honor of hosting the 24th Congress at Sydney in Australia in 2020. The Committee recommended Dr. Luis Felipe Alcocer (Mexico) to be the new Chair of C-CONGR in place of Mr. Luis Pimentel till 2017 when a new Chair from Australia will be in place.

PCSO Agenda Item 8.3: ICID Young Professional's e-Forum (IYPeF)

21. Secretary General reporting on IYPeF activities, informed that presently there are more than 160 members in the LinkedIn based network of IYPeF (the Forum) with about 20 observers who can also volunteer as mentors. Secretary General expressed his appreciation to PH Prof Bart Schultz, VP Dr. Charlotte de Fraiture and VPH Dr. Huseyin Gundogdu for participating in the e-discussions which took place during the four months preceding WIF2 on four different topics and mentoring the YPs in the Forum.

22. Secretary General also informed that 6 most active members on the Forum have been elected as Coordinator/Joint coordinator by the members of IYPeF through electronic voting who form the Core-group that will be active during the next one year. There will be replacement of the two joint-coordinators every year by new coordinators elected through e-voting.

23. IYPeF has offered to continue their e-discussions and have proposed to organize one e-discussion every quarter. They have also decided to organize two Webinars for which tentative topics have been proposed. Secretary General urged the members to join the IYPeF discussion forums as mentors for which SG will send a request depending on the expression of interest and expertise. SG also urged the NCs to connect the YPs in their countries to the Forum by providing their e-mail addresses to the Central Office. The potential participants will be eventually sent an invitation to join the Forum.

PCSO Minutes Item 9: Organizational issues related to IEC, Congresses, Forums and Conferences**PCSO Minutes Item 9.1: Report of the Sub-Committee on Themes, Topics and Work Plans of future ICID Events (SC-E-THEMES)**

24. PH Bart Schultz, Chair of the Sub-Committee, presented his report where he informed that the sub-committee will only address the themes of the Congresses and Forums. With respect to the International Drainage Workshop (IDW) and International Micro-Irrigation Conference, the WG-SDRG and WG-SON-FARM respectively will take a decision on the Themes. In respect of the Regional Technical Conferences, the respective Regional Working Groups would take the lead and deliberate and decide on the topics for the Conferences. He appreciated the efforts of the CO in laying down the procedures. The Committee recommended that Guidelines for the organization of World Irrigation Forum be prepared as has been developed for ICID Congress.

25. The mechanism suggested by the Committee is placed at **Annex R2.1, Page 19**).



**Report of the 36th Meeting of the
PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)
11 November 2016, 09.00-17.00 hours
Chiang Mai, Thailand**

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 activities of the technical work bodies, for selection of Questions/Themes for Congresses, Conferences, Special Sessions, Symposia, etc., for settlement of the technical conclusions thereof and for making appropriate recommendations for action thereon.

Members Present: (1) Vice President Hon. Dr. Felix B. Reinders, Chairman (South Africa, 2010); (2) Prof. Graziano Ghinassi (Italy, 2012); (3) Prof. Masayoshi Satoh (Japan, 2012); (4) President Hon. Mr. Peter S. Lee (UK, 2013); (5) Vice President Hon. Mr. Chaiwat Prechawit (Thailand, 2014); (6) Vice President Dr. Ding Kunlun (China, 2015); (7) Vice President Dr. Mohamed Abd-El-Moneim Wahba (Egypt, 2015); (8) Mr. Ali Reza Salamat (Iran, 2015); (9) VPH Mr. Larry D. Stephens (USA), PCTA Secretary and (10) Er. Avinash C. Tyagi, Secretary General, ICID

Permanent Observers: Mr. Ian Makin, IWMI Representative.

Ex-Officio Members Present: (i) VP Dr. Mohamed Wahba (Egypt), Co-Theme Leader, Strategy Theme – Basin; (ii) VP Dr. Charlotte de Fraiture (Netherlands), Co-Theme Leader, Strategy Theme – Basin; (iii) VP Dr. Abdelhafid Debbarh (Morocco), Co-Theme Leader, Strategy Theme – Knowledge & Chair, WG-CDTE; (iv) VP Dr. Ding Kunlun (China), Co-Theme Leader, Strategy Theme – Schemes; (v) VP Ian Makin (UK), Co-Theme Leader, Strategy Theme – Schemes & Chair, WG-M&R; (vi) VP Bong Hoon Lee (Korea), Co-Theme Leader, Strategy Theme – On- Farm; (vii) VPH Mr. Larry D. Stephens (USA), Chair, C-PR&P and Secretary, PCTA; (viii) PH Prof. Bart Schultz (The Netherlands), Chair, EB-JOUR, Chair, SC-E-THEMES; (ix) Dr. Kamran Emami (Iran), Chairman, WG-HIST, WG-CAFM & TF-VE; (x) VPH Franklin E. Dimick (USA), Chair, WG-DROUGHT; (xi) Dr. Ruey-Chy Kao (Chinese Taipei), Chair, WG-SDTA; (xii) Dr. Sylvain Perret, Chair, WG-ENV; (xiii) Dr. Tsugihiko Watanabe (Japan), Chair, WG-CLIMATE; (xiv) Dr. Ragab (UK), Chair, WG-CROP; (xv) Dr. Samia El-Guindy (Egypt), Chair, WG-PQW represented by Dr. Ragab; (xvi) VPH Felix B. Reinders, Chair, WG-SON-FARM; (xvii) Dr. Fuqiang Tian (China), Chair, WG-BIO-ENERGY; (xviii) Dr. Bernard Vincent (France), Chair, WG-SDG; (xix) VPH Dr. Hafied Gany (Indonesia), Chair, WG-IOA; (xx) VPH Françoise Brelle (France), Chair, WG-IDM represented by Ms. Mary Jean Gabriel, Provisional Vice Chair, WG-IDM (South Africa) and (xxi) Mr. Mehrzad Ehsani (Iran), Chair, WG-WATS.

Observers Present: (i) President Dr. Saeed Nairizi (Iran); (ii) PH Dr. Gao Zhanyi (China); (iii) VPH Dr. Gerhard Backeberg (South Africa); (iv) VPH Dr. Adama Sangare (Mali); (v) VPH Dr. Huseyin Gundogdu (Turkey); (vi) VPH Prof. Laszlo Hayde (Hungary); (vii) VPH Laurie Tollefson (Canada); (viii) VPH Dr. Peter Kovalenko (Ukraine); (ix) VPH Dr. Shinsuke Ota (Japan); (x) Mr. Waseem Nazir (Pakistan); (xi) Dr. Gong Ju (Korea); (xii) Mr. Kenichi Uno (Japan); (xiii) Dr. Marco Arcieri (Italy); (xiv) Dr. Somkiat Prajamwong (Thailand); (xv) Mr. Maurice Roos (USA); (xvi) Dr. Ahmed M. Adam (Sudan); (xvii) Dr. Sándor Szalai (Hungary); (xviii) Dr. Gurbachan Singh (India); (xix) Kyung Sook Choi (Korea); (xx) Taeseon Park (Korea); (xxi) Youn Sun Lee (Korea); (xxii) L. Wangchai (Thailand); (xxiii) N.G.R. Ariyaratne (Sri Lanka); (xxiv) Mu Than (Myanmar); (xxv) Mr. Warren Helguson (Canada); (xxvi) Nanthawan Sunan Satit (Thailand); (xxvii) Dr. Arthon Suttigarn (Thailand); (xxviii) Sahar Norouzi (Iran); (xxix) Mr. Clarke Ballard (Australia); (xxx) G.M.R.A. Perera (Sri Lanka); (xxxi) Mr. Bashu Dev Lohane (Nepal); (xxxii) Françoise Ouane (Burkina Faso); (xxxiii) Dambre S. Bernard (Burkina Faso); (xxxiv) Mat Hussin Ghani (Malaysia); (xxxv) Mr. Amit Parashar (CSIRO); and (xxxvi) Carmel Pollino (CSIRO).

PCTA Minutes Item 1: ATR on the minutes of the 35th Meeting of PCTA

1. An Action Taken Report (ATR) on the minutes of the 35th PCTA meeting held at Montpellier was noted by the Committee with satisfaction.

PCTA Minutes Item 2: Membership of the PCTA and Workbodies

2. The PCTA noted that VPH Mr. Felix B. Reinders would be completing his tenure of six years as member and five years as Chairman of PCTA by the end of the Chiang Mai meeting of PCTA in accordance with ICID By-laws 3.8.1(c). In accordance with ICID By-laws 3.9.4 (b), Vice President Dr. Ding Kunlun has been nominated as the new Chair of PCTA, subject to approval by IEC. The Committee invited NCs, including South African National Committee to nominate representative to the PCTA.

3. Chairman Reinders reviewed the memberships of the work bodies that have been proposed by various workbodies under the Committee and changes have been proposed and affected as per the consolidated list of membership of workbodies given at **Annex 5 (Page 33)** of 67th IEC minutes.

PCTA Minutes Item 3: Functioning of Workbodies

4. PCTA Chair, earlier during the Plenary session of IEC, encouraged the workbodies to use the facility of web-conferencing/tele-conferencing/video-conferencing to hold interim meetings for more frequent interactions with the members between two IEC meetings, with the objective to help the provisional members of various workbodies, who are unable to physically present during the annual meetings, to enable them to contribute to the activities of the WGs and thereby become active members of WGs. The Committee recalled that establishment or extension of the WGs has to follow the procedures set out to ensure that the WGs get the required support and inputs from the NCs. Later, VP Charlotte, while providing the review of Strategic Theme Basin (Agenda Item 7.7), also made a number of useful suggestions for improving the functioning of Workbodies.

PCTA Minutes Item 4: Revision/Updating of Multilingual Technical Dictionary (MTD) – Establish a Task Force on MTD

5. During the last IEC meeting, the efforts to upgrade the MTD (CD version 2010) to an on-line version were initiated as an important input to meet SDGs. It was also proposed that the irrigation and drainage dictionaries in various national languages would also be amalgamated. While considering a mechanism to review/update the existing MTD as per the background note presented during the Montpellier meeting of PCTA, the Committee recommended that a Task Force be established including representatives from various specialized fields, at the same time representing various languages included in the MTD. It was reported that a Korean version and Indonesian version of the MTD is being prepared and will be made available soon.

6. The Committee considered the Draft Scoping Document for the establishment of a Task Force for Updating and Maintenance of MTD prepared by Central Office and recommended for the establishment of TF-MTD. The TF will be chaired by Chair PCTA and consist of chairs/nominees of WGs IDM, IOA, SON-FARM, SDG, M&R, and CAFM along with co-opted members from specialized organizations like FAO, IWMI, and ADB. The mandate is provided in **Annex R2.2 (Page 20)**. The Committee proposed that TF in its work should find ways and means to align its work with FAO system and reduce duplication of efforts.

PCTA Minutes Item 5: ICID Vision 2030 – Inputs to ICID Action Plan 2030

7. The 66th IEC meeting approved the Vision, Mission and six Organizational Goals and requested the Consultative Group (CG) that has been constituted to develop 'Draft ICID Vision 2030 Document' to develop a Draft Action Plan 2030 including review of structure and other organizational aspects required to achieve the goals of Vision 2030. It was pointed out that the CG Chair VPH Huseyin Gundogdu reviewed the status of preparation of action plans by the WGs as well submission of filled in questionnaire by the NCs a during the Chiang Mai meeting.

8. All the WGs were requested to discuss and finalise action plan for their WG as input to prepare ICID Action Plan for Vision 2030. WGs discussed this agenda during their meeting and most of the WGs were of the view that it may take some more time to finalise the action plan for their WGs. Members of the PCTA suggested that WGs and NCs may be provided time for submitting their inputs for the Action Plan by 15 January 2017 so that the Action Plan can be finalized by June 2017 (See PCSO Report Item 4, Page 48).

PCTA Minutes Item 6: International Research Program for Irrigation and Drainage (IRPID) Scheme

9. Based on the decision of the Management Board of ICID, an IRPID Scheme was notified vide Notification No.16 of 2016 dated 27 April 2016 among ICID National Committees inviting to establish regional nodes, following the examples of regional nodes that are currently working in Beijing and Tehran. The notified IRPID Scheme gives vision, mission and objectives of the Research Program, besides presenting the organizational structure, coordination mechanism etc.

10. PCTA Chair VPH Reinders informed the members the objectives of the Scheme and the progress about the Program, while presenting the Report of AC-IRPID as its Chair (See PCSO Report Item 5, Page 48)..

PCTA Minutes Item 7: Review of reports of the activities of Workbodies under the Strategy Theme – Basin (ST.B)**PCTA Minutes Item 7.1: Working Group on Water Management in Water Stressed Regions (WG-DROUGHT)**

11. VPH Mr. Franklin E. Dimick, Chair of the WG presented the report of the meeting of WG and informed that the WG is preparing its report under three themes: (i) Drought Management Strategies in Water Stressed / Scarce

Regions, (ii) Coping with Water Scarcity, and (iii) Rainfall Harvesting and Management for Sustainable Agriculture in Water Stressed /Scarce Regions. Draft reports for theme I and III have been finalized while report for theme II is under finalization by Dr. Jan Ming-Young of Chinese Taipei, which would be available by March 2017 for circulation among members of the WG for their views/comments. The final document is expected to be sent to Central Office by June 2017.

12. WG finalized the closure report of the WG. WG finalized the scoping document for the new WG and recommended creation of a new WG on 'Managing Water Scarcity under Conflicting Demands', which was endorsed by PCTA. It was pointed out that the Scoping Document finalized by the WG will have to be circulated to the NCs and their interest in participating in the activities of WG sought.

PCTA Minutes Item 7.2: Working Group on Sustainable Development of Tidal Areas (WG-SDTA)

13. Dr. Ruey-Chy Kao, Chair of the WG presented the 'Summary of Activities' of the WG. The WG successfully organized an International Short Course on 'Resilience and Adaptations to Climate Change for Sustainable Management of Tidal Areas' from 1-6 August 2016 at Tainan City in Chinese Taipei, followed by an interim meeting of the WG. The WG will be publishing a Special Issue of ICID Journal on SDTA titled "Sustainable Development of Tidal Areas: Climate change and environmental impacts" in 2017. The Chair presented the 'Scoping Document' with a new mandate for the period 2016-2021 which was endorsed by PCTA. The Scoping Document will now be circulated to the NCs and their interest in participating in the activities of WG sought.

PCTA Minutes Item 7.3: Working Group on Environment (WG-ENV)

14. Dr. Sylvain Perret, Chair of the WG presented the summary report of the meeting. A WebEx meeting of the WG is proposed to be held in early 2017. The WG actively participated and organized the two Side events: (a) *Environmental performances of paddy rice systems in the context of climate change*, (b) *Climate change impact and adaptation in agriculture* during WIF2 besides conducting a training workshop on "The environmental impact analysis of irrigation systems: using Life Cycle Analysis" for Young Professionals on 10 November 2016.

15. The WG proposed to organize a joint workshop with WG-SDG on 'Soil and water salinization as results from irrigation and drainage practices' at Mexico in 2017. It was pointed out that the program of the Congress would be finalized by the TAC for the 23rd Congress. PCTA endorsed the proposal for consideration of TAC. The Committee noted that the WG is preparing two documents: (a) "Ecosystem services in irrigation systems" and (b) "Finalization of the LCA methodology", to be published in 2017.

16. The Committee was informed that VP Charlotte Fraiture (the Netherlands) becomes the new chair of the WG whereas Dr. Perret assumes the charge of Secretary for time being. The PCTA recommended these nominations of the WG. PCTA appreciated the efforts of the Dr. Sylvain Perret, Chair of the WG for the intensive activities of the Group, particularly for making use of WebEx tool for furthering the activities of the WG.

PCTA Minutes Item 7.4: Working Group on Comprehensive Approaches to Flood Management (WG-CAFM)

17. Dr. Kamran Emami, Chair of the WG presented the report of the WG and informed that preparation of the publication of the WG titled 'Adaptive Flood Risk Management' covering both structural and non-structural aspects of floods management is continuing and members have been requested to prepare case study reports to complete the publication. WG finalised the closure report of the WG and recommended the establishment of a new WG. The PCTA suggested that the WG members, acting as Core Group prepare and finalise scoping document with new mandate for circulation among the NCs and other partner organizations engaged in flood management activities.

PCTA Minutes Item 7.5: Working Group on Climate Change and Agricultural Water Management (WG-CLIMATE)

18. Dr. Tsugihiko Watanabe, WG Chair presented the report of the meeting of the WG-CLIMATE and informed that as a part of updating of MTD the WG has contributed 127 terms related to climate change to the MTD. He further informed that WG organised a Workshop on "Agricultural Water Management under the Changing Climate" with about 40 participants and would be organizing a similar workshop during the working group meeting in Mexico City in 2017.

PCTA Minutes Item 7.6: Working Group on Water for Bio-Energy and Food (WG-BIO-ENERGY)

19. Dr. Fuqiang Tian, Chair of the WG presented the report of the meeting of the WG and informed that WG has completed its initial mandate and based on the finalized scoping document WG recommended the establishment of

a new WG on 'Water for Bio-Fuel and Food' with revised mandate. PCTA endorsed the recommendation to IEC which approved setting of new WG with the revised mandate as given in **Annex R2.2 (Page 20)**.

PCTA Minutes Item 7.7: Synthesis Report by Co-Theme Leaders of ST Basin

20. The Synthesis Report was presented by VP Dr. Charlotte de Fraiture. She noted that she attended the meetings of the work bodies under the strategy theme. She noted that too much time was spent on procedural matters and not enough time was given on workbody's technical outputs. She recommended more efforts are needed to involve young professionals in workbody activities. She recommended approval of all new mandates that were proposed by the WGs.

21. VP Charlotte made the following observations and recommendations which needs to be considered for improving functioning of the workbodies. She observed that the WGs had variable attendance and all of the WGs had many non-members. She pointed out that two WGs had sought renewal of mandates (DROUGHT, Bio-Energy), WG-ENV sought change in mandate by adding salinization, and WG-CAFM had sought extension which she endorsed. She lamented that the internal communication within the WGs was mostly confined to the annual meeting, and only a few (WG-ENV, WG-CLIMATE) only used Webex or other tools for communicating and carrying out their activities during the intervening period.

22. She noted that the Workplans were developed/revised based on input from CO and as such the emphasis during the meeting was on planning, less on to implement it by identifying responsible persons. She suggested that the Plan should be flexible and updated every year with proper monitoring and accountability.

23. VP Charlotte emphasized that there is need to make the sessions of WGs more lively and full of contents as people wandering in sessions are looking for contents. There is need to establish links with other WGs and broad-basing members/observers by tapping into YP, (e.g. ENV – class for YP). She also emphasized the need for proper scheduling of WG meetings during ICID gatherings.

24. VP Charlotte suggested that emphasis should be more on reinvigorating running groups and new WG should be established only if there is an active "champion" to pull the group along with identification of members interested in the mandate. She recommended that more emphasis should be placed on output and activities, which should form an essential conditions for extension of the WGs. She suggested that these outputs could be in the form of publications, blogs, webinars, e-discussions, Training, as well as sessions in conferences.

25. SG suggested that summaries of the technical discussion in the WG in the form of presentations and workshops be prepared so that the technical material presented can be shared outside the WG. This will provide the publicity to the activities of the WG, as suggested by VP Dr. Charlotte.

26. PH Peter Lee pointed out that, as far as possible, in future work body meetings under a particular theme be scheduled consecutively, not concurrently so that theme leaders and participants can attend all or most of the WG meetings under each theme. After discussions, PCTA agreed that a Small committee be set up with Theme leaders and SG to investigate the structure, scheduling of meetings and membership of WGs.

PCTA Minutes Item 8: Review reports of the activities of Workbodies under the Strategy Theme – On-Farm (ST.OF)

PCTA Minutes Item 8.1: Working Group on Water and Crops (WG-WATER & CROP)

27. VPH Dr. Ragab Ragab, Chair of the WG presented the report of the meeting of the WG-CROP. The Technical Report of the WG will be a consolidation of contributions by members on various topics under the mandate of the group and will be finalised in early 2017. The WG was actively involved in preparation of background paper for Sub-theme 1 besides reviewing abstracts and being Co-Chair/ Rapporteur for several parallel sessions of WIF2. The WG proposed to organize a workshop on '*Improving the water use efficiency within the Water-Food-Energy nexus*' during the Canada Meetings in 2018. Dr K.Y. Reddy (India) volunteered to organize a Webinar in 2017.

28. In view of poor attendance in the meetings affecting the performance of the WG, the Chairman suggested that PCTA/IEC should consider allowing more than one person from a National Committee to be a member of the WG.

29. PCTA recommended to IEC that a methodology be developed to allow more than one member per WG from a given country. VP Ian Makin suggested that all WGs under a theme meet briefly during the IEC week to discuss the items that are dealt with under the WG agendas. It was recommended that NC can nominate more than one member but it must be less than the 20% of the total membership of the WG (for e.g., if there are 20 members on the WG, then the maximum per country shall be 4).

PCTA Minutes Item 8.2: Working Group on Use of Poor Quality Water for Irrigation (WG-PQW)

30. VPH Dr. Ragab Ragab presented the report of the meeting of WG-PQW. The WG requested for a one year extension, and also to change the name of a new WG to 'Non-Conventional Water Resources.' The Committee approved the extension up to 2017 and asked the WG to come up with a Scoping Document to establish a new WG as proposed in Mexico in 2017.

PCTA Minutes Item 8.3: Working Group on Sustainable On-Farm Irrigation System Development (WG-SON-FARM)

31. VPH Mr. Felix B. Reinders, Chair of the WG presented the report of the meeting of the WG-SON-FARM and informed that the WG plans to organize an internal workshop during the WG meeting during 68th IEC meeting in Mexico in 2017 and the 9th International Micro Irrigation Conference (IMIC) in India in January 2019. The report on "Micro irrigation for smallholders and greenhouses" provided by Prof. Yoshisuke Nakano (Japan) would be reviewed and finalized by the end of 2016 for publication. The closure report of the WG will be sent to Central Office by January 2017.

PCTA Minutes Item 8.4: Synthesis report of Co-Theme Leaders of ST On-Farm

32. The Synthesis report was presented by VP Bong Hoon Lee. He gave a brief presentation and reviewed the activities of the WGs under the Theme. He later presented the detailed analysis of the Theme ON-FARM during the IEC meeting.

PCTA Minutes Item 9: Review of reports of the activities of Workbodies under the Strategy Theme – Knowledge (ST.K)**PCTA Minutes Item 9.1: Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST)**

33. Dr. Kamran Emami, Chair of the WG presented the report of the meeting of the WG. The WG will be finalizing its publication on 'Historical Water Sustainability' in early 2017 and also organize a workshop on the same topic at Mexico in 2017. The WG organized a Side Event on 'History of Irrigation and Drainage around the World' and history exhibition with participation from CNCID, JACID and KCID during WIF2 besides being involved in HIS. The WG was requested to get closely associated with the World Water System Heritage Program, which is being spearheaded by ICID in close collaboration with WWC. PCTA agreed that one member from the WG-HIST should be included in the TAC of WSH.

34. The WG prepared a closure report and has developed a mandate for a new history WG. The PCTA observed that the new mandate should be circulated among the NCs.

PCTA Minutes Item 9.2: Working Group on Capacity Development, Training and Education (WG-CDTE)

35. VP Prof. Dr. Abdelhafid Debbarh, Chair of the WG presented the report of the first meeting of the WG-CDTE and informed that the WG will provide support to the activities of the TSU mainly in terms of capacity building, training and education of the professionals in the area of Agricultural Water Management. The WG welcomed the proposal of ICID Central Office to develop a collaboration with Asian Institute of Technology (AIT-Thailand) in the domain of CDTE in AWM. The WG will seek further in-depth discussions with AIT to define the topics and modalities of collaboration.

PCTA Minutes Item 9.3: Task Force to Guide ICID Inputs to World Water Forum 8 (TF-WWF8)

36. VPH Felix Reinders presented the report of the meeting of TF on behalf of PH Dr. Chandra Madramootoo, Chair of the TF and briefed about the topics of WWF8 and the role of ICID in the Forum. ICID will collaborate with FAO and IWMI on the joint coordination of the topic 'Water for Food Security'. In order to seek broader engagement of Latin America irrigation and drainage professionals and decision makers in water for food security, it was proposed to organize a 'Americas Session' during the Mexico meetings in 2017. The TF identified several areas for ICID contributions to the Forum.

PCTA Minutes Item 9.4: Task Force on Value Engineering (TF-VE)

37. Dr. Kamran Emami, Chair of the TF presented the report and informed that since promoting VE in ICID would need more time so TF recommended the formation of a new working group on VE as term of TF has come to an end. TF Chair also informed that he will prepare its closure report and submit to ICID CO. PCTA suggested that the scoping document with the mandate for the new WG and the potential collaboration with International Partners may be prepared. TF Chair agreed to present the scoping document by the next meeting at Mexico City in 2017 after circulation among the NCs and seeking their interest and nominations for the membership.

PCTA Minutes Item 9.5: Committee on Public Relations and Publications (C-PR&P)

38. VPH Mr. Larry D. Stephens, Chair of the Committee presented the report of the meeting of the Committee. The Committee recommended that a report summarizing the WatSave award winners be prepared by relevant PCTA work bodies. The Committee also reviewed the Irrigation and Drainage Products and Services Directory on the ICID website. The Committee was informed that organizations and companies can be included in the Directory at no charge by completing an online form. C-PR&P urged National Committees to inform organizations and companies within their countries about this opportunity.

PCTA Minutes Item 9.6: ICID Journal Editorial Board (EB-JOUR)

39. PH Prof. Dr. Bart Schultz, Chair of the EB-JOUR presented the report of the meeting of the Editorial Board of the Journal. The EB proposed to devote one issue of IRD to the ICID Action Plan with invited papers. The EB recommended the comments made by Prof. Daniele de Wrachien to be included as a preamble in the Action Plan 2030. It was informed that only about 1/3rd of the papers submitted for the journal were accepted. The Journal is now available in more than 10,000 libraries. The Impact factor for the Journal was 0.561 in 2015. During 2017, the Board will work with Wiley, the publisher, to reach a new agreement for the period beginning in 2018. Dr. Poolad Karimi (Iran) was recommended to be the Associate Editor of the EB-JOUR.

PCTA Minutes Item 9.7: Synthesis report of Co-Theme Leaders of ST Knowledge

40. No synthesis report was presented.

PCTA Minutes Item 10: Review of reports of the activities of Workbodies under the Strategy Theme – Schemes (ST.S)**PCTA Minutes Item 10.1: Working Group on Sustainable Drainage (WG-SDRG)**

41. Mr. Bernard Vincent, Chair of the WG presented the report of the meeting of the WG-SDG and informed that the WG held an internal workshop during the Chiang Mai meeting where papers on bio-drainage, dry drainage, and controlled drainage were presented. It was pointed out that the acronym of the Group WG-SDG is misleading and gives the impression that it deals with Sustainable Development Goals (known popularly as SDG) and needs to be changed. PCTA recommended that the acronym WG-SDRG may be used instead.

PCTA Minutes Item 10.2: Working Group on Institutional Aspects of Irrigation/Drainage System (WG-IOA)

42. VPH Dr. Hafied A. Gany, Chair of the WG presented the report of the meeting of the WG-IOA and informed that WG is preparing a three-year and six-year work plans. WG Chair also informed that WG plans to provide technical lead in organising the Symposium on 'Global Review of Institutional Reform in Irrigation Sector for Sustainable Agriculture Water Management, including WUA' as part of 23rd Congress on the theme. Country papers would be invited from NCs covering the following topics:

- **Topic – 1:** Legal Framework and organizational structure including WUA for Water Supply Services;
- **Topic – 2:** Participatory Irrigation Management and Management Transfer -- Approaches and condition for successful PIDM; and
- **Topic – 3:** Public – Private – Partnership (PPPs) in Irrigation and drainage operation and maintenance toward sustainable irrigated agricultural water management.

PCTA Minutes Item 10.3: Working Group on Modernization & Revitalization of Irrigation Schemes (WG- M&R)

43. VP Ian Makin, Chair of the WG presented the report of the meeting of the WG-M&R and informed that the WG organized a Side Event during WIF2 on 'Developments in Irrigation and Modernization.' The WG is developing a definition of Modernization, and the proposed definition is 'Modernization is the process of upgrading infrastructure, operations and management of irrigation systems to sustain the water delivery service requirements of farmers and optimize production and water productivity.' The WG will solicit comments on the definition towards its finalization and will provide final definition to the ICID Central Office for distribution to the national committees.

PCTA Minutes Item 10.4: Working Group on Water Saving in Irrigated Areas (WG-WATS)

44. Mr. Mehrzad Ehsani, Chair of the WG presented the report of the meeting of the WG-WATS and informed that the WG developed their inputs to Draft ICID Action Plan 2030. WG Chair further informed that the WG will develop a Side Event or Symposium on 'Water Savings' during the IEC Meeting at Mexico City in 2017.

PCTA Minutes Item 10.5: Working Group on Irrigation, Development and Management (WG-IDM)

45. Ms. Mary Jean Gabriel, the new Chair of the WG presented the report of the first meeting of the WG-IDM and informed that after detailed discussions, WG has finalized scoping document with the revised mandate (See WG-IDM Minutes, Appendix XIX, page 181). WG Chair further informed that the final goal of the WG is to bring out a Guideline on the 'Water balance approach in irrigation systems' at the completion of the WG mandate. The WG also recommended that a workbody on 'Groundwater' be established.

PCTA Minutes Item 10.6: Synthesis Report by Co-Theme Leaders on ST Schemes

46. VP Ian William Makin presented the Synthesis Report. He noted that the WGs need to make new efforts to make the WG meetings interesting to outsiders and new members as was already pointed out by VP Charlotte in her presentation under Synthesis Report of ST Basin.

PCTA Minutes Item 11: Newly Proposed Workbodies**PCTA Minutes Item 11.1: Working Group on Groundwater Irrigation**

47. PCTA initially accepted in principle the proposal for the creation of a new workbody on 'Groundwater' as an outcome of the 26th European Regional Conference and suggested that a scoping document for a WG on Groundwater Irrigation be prepared. Since there were no volunteers to move the topic forward and no Scoping Document was prepared, after discussions, PCTA decided that the groundwater issue will form part of the WG-IDM (refer **Annex R2.2, page 20** for revised mandate of WG-IDM).

PCTA Minutes Item 12: Report on the outcome of WIF2

48. THAICID representative presented a detailed report on the results and outcome of WIF2. He also presented the WIF2 Statement released during the Wrap-up Session of WIF2 which is placed at **Annex** to the Report of the Committee.

49. PCTA Chairman VPH Reinders thanked the Thailand National Committee for their outstanding work in the organization of WIF2. VPH Felix emphasized the need to recognize the recommendations (**Annex R2.3, page 21**) made by the Ministerial Roundtable on 'Delivering SDG's through Agriculture Water Management' held on 06 November 2016, to set up a High Level Advisory Group on "Partnerships for Agriculture Water Management" and also to establish a dedicated Task Force to provide support to the High Level Advisory Group. PCTA supported the view of PCTA Chair and recommended to the Council for its approval.

PCTA Minutes Item 13: Report of the Sub-Committee on Themes, Topics and Work Plans of future ICID Events (SC-E-THEMES)

50. PH Bart Schultz, Chair of SC-E-THEMES presented the report of the Sub-Committee. Based on the report, PCTA recommended to the Council that the revised composition and mandate of SC-E-THEMES as given below and its report suggesting a permanent mechanism for formulating themes and topics for various ICID events be accepted (**Annex R2.1, Page 19**).

Composition:

- (1) Technical Experts – one each drawn from ITAC for immediate past and future WIF and Congresses, within a span of six years.
- (2) Two Experts nominated by PCTA.
- (3) Three Experts drawn from Technical Workbodies of ICID
- (4) Chairperson of SC will be nominated from amongst the members, by the President in consultation with Secretary General.
- (5) The membership will be for a maximum of six years and the nominee of ITAC of past Event will be a member for two years after the conclusion of that particular event.
- (6) The membership shall not exceed more than 10 members.

Mandate:

- (a) To deliberate and recommend the Themes, sub-themes and Work plans of future Congresses and World Irrigation Forums
- (b) To set out format and technical contents of the Congress and WIFs
- (c) To recommend to PCTA the topics of the two Questions and the optimal program for the Congress,
- (d) To review the technical outputs and outcomes and suggest follow ups

51. PCTA approved the recommendation of SC-E-THEMES that the 'Short Communication' be renamed as 'Innovative Products and Services' in future WIFs while the events related to the themes of WIF/Congress will be organized under the banner 'Supporting Event'. The events which are not related to themes of WIF/Congress will be termed as 'Side Event'. The Committee further recommended that Guidelines for the organization of World Irrigation Forum be prepared as has been developed for ICID Congress, in view of the above proposed changes.

52. PCTA was informed that Dr. Warren Helguson of CANCID, presented the themes and topics for the Regional Conference to be held in Saskatoon during the 69th IEC Meeting which were reviewed by the Sub-Committee. The proposed Theme is 'Innovative and Sustainable Agri-Water Management: Adapting to a Variable and Changing Climate.' The proposed sub-themes are (a) Competing Water Demands, (b) Resilient Agriculture and (c) Irrigation in Perspective. PCTA recommended that the theme and sub-themes for Regional Conference during 69th IEC at Saskatoon be approved.

PCTA Minutes Item 14: Technical Support Unit (TSU) in ICID – An Update

53. The Committee was informed that Technical Support Unit (TSU) has been established at ICID Central Office as per 66th IEC decision (Resolution IEC-3/66, Para 7). The establishment of TSU has been notified to NCs on 4 January 2016 (**IEC Agenda Item 14, Annex 3, Page 11**), requesting NCs to nominate experts, giving the terms of reference for engaging them as part of TSU program together with application form. Secretary General requested the NCs to nominate volunteers to the TSU.

PCTA Minutes Item 15: Any other business

54. Mr. Amit Parashar, Australia gave a presentation on the Water Cloud facility that is being developed by CSIRO. As the product being developed directly addresses the needs of developing countries who are particularly handicapped with lack of water resources data, this product will help them easily access the global and satellite data available and use simple modelling tools for quick assessment of resources and their planning at a feasibility level. CSIRO sought cooperation with ICID members in furthering the use of this tool.

55. PCTA Chairman Mr. Felix Reinders informed that his term as Chair of PCTA has ended and thanked the Committee and all the WG members for their support during his term as Chairman. He announced that Vice President Dr. Ding Kunlun will take over the Chairmanship, subject to approval by the Council.

56. PH Peter Lee, on behalf of the Committee thanked the outgoing Chair and Mr. Stevens for their excellent work as Chair and Secretary of PCTA.



Annex to Appendix III [Item 12, Para 48]

FORUM STATEMENT



6-8 November 2016, Chiang Mai, Thailand

Second World Irrigation Forum (WIF2) was held from 6 to 8 November 2016 in Chiang Mai, Thailand. The Forum was organized by the International Commission of Irrigation and Drainage (ICID) and the Thailand National ICID Committee (THAICID) in cooperation with a number of International and National Partners that brought together representatives of various stakeholders involved in irrigation of all types at all scales. About 1200 participants from 71 countries, 10 International Organizations and 9 Ministers attended the Forum.

The main theme **'Water Management in a Changing World: Role of Irrigation for Sustainable Food Production'** recognizes that The world's population is growing rapidly and is expected to reach about 9 billion by 2050, mostly living in urban areas, which pose challenges in meeting the sharply growing water, food and energy demands. In order to feed this growing population it is estimated that agricultural production needs to be increased by about 70 % globally and by as much as 100 % in developing countries. It is likely that increased food production will have to be achieved with a reducing share of water for agriculture due to competition from other sectors including uncertainty due to climate change and variability. This calls for growing more with less water in a sustainable manner. New ways to grow food in ecologically and ethically responsible manners and expansion of irrigation to previously rainfed areas, along with supply and demand side management options will play a significant role in achieving this goal.

The key to sustainable development of irrigated agriculture in the changing environment and the on-going rural transformation lies around modernization of irrigation systems and related services to improve water use efficiency; improving water and land productivity supported by financial mechanisms; reform of management institutions; adoption of efficient water management techniques including recycling and reuse of waste water; use of modern technologies; increasing awareness about water scarcity and capacity development of service providers and farmers etc. with participation of all the stakeholders (public and private sector, academic and research institutions, industry, civil society, farmers' and their organizations etc.).

Within the context of the Main theme, more than 183 papers, short communications and posters were presented and discussed under three Sub-themes: (1) Key issues of irrigation and drainage in balancing water, food, energy and ecology; (2) Management of climatic extremes with focus on floods and droughts; (3) Key and smart actions to alleviate hunger and poverty through irrigation and drainage. In addition to the thematic sessions there were 17 Side events and an Exhibition.

A WIF first was the round table Ministerial meeting where Ministers from Bhutan, Cambodia, China, Ethiopia, Indonesia, Laos, Nepal, Pakistan, Sudan participating in the Second World Irrigation Forum, hosted by the Kingdom of Thailand, under the chairmanship of Honourable Minister of Agriculture and Cooperatives of Thailand, made a press release based on their deliberations on 6th November 2016. They agreed to establish a High Level Advisory Group on **"Partnerships for Agriculture Water Management"** as an action-oriented multi-stakeholder partnership. The objective is to support member countries in achieving the Sustainable Development Goals (SDGs) and share experiences in implementation of targets related to agriculture water management which is key to both water and food security. It will also support the UN System efforts in monitoring the progress on related SDGs. The partnership will advocate strong policy support for higher investments in Agriculture Water Management (AWM) to ensure food and water security.

As a result of the presentations and discussions at the World Irrigation Forum, the following statements were agreed:

1. The great challenge for the coming decades will be to increase food production with fewer resources -water, soil, energy, and biodiversity.
2. In order to foster sustainable development, it is essential to maintain the balance between water, energy, food, and ecosystem services.
3. The issues that irrigation and drainage sector is facing are (a) safeguarding resource availability and its quality when designing new systems, (b) the operation and maintenance of existing systems and in turn their impact on resources and the environments that hold them, and (c) the stakeholder interaction and participation that lead to the governance of the systems and their underlying resources.
4. The future challenges require unconventional thinking and solutions. Thinking within the water-energy-ecosystem-food nexus framework with water resources at its heart is essential.

5. Increasing water supply to meet the future demand requires a more efficient water use, use of non-conventional water resources, and water harvesting.
6. Sustainability can only be achieved within a complete water chain approach and with full stakeholder involvement from start to end and from farmer to minister.
7. We need to adopt a more integrated holistic approach to understand and sustainably manage resources with the aim to produce more from less “more crop per drop per kilowatt” without hampering natural ecosystem services.
8. Climate change is recognized as one of the most serious and urgent issue for human society and global environment. In the context of agriculture, improving irrigation and drainage systems and rural development will play a key role in achieving the rural water and food security under impending climate change, especially in the developing countries.
9. To reduce the disaster risks, the global and local society or community need to assess the magnitudes, frequencies, and variabilities of weather and climate events; the exposure of the society for these events; and the vulnerability of the region and society to these extremes.
10. Under the given uncertainties in climate change impact projections, improving resilience by reinforcing the capability of societies to better cope with the extreme events is one of the most favoured approaches.
11. In the pursuit of information to support the policies and actions to alleviate hunger and poverty from a perspective of the role and impacts of irrigation and drainage, correlation must be provided between water scarcity, community and poverty.
12. One of the main goals of the international community is to eliminate hunger and poverty and in this perspective, through the Millennium Development Goals much progress has been achieved and evidence obtained. Sustainable Development Goals and various United Nations and other initiatives, intend to move forward this agenda by making it a part of the broader development frameworks.
13. The important elements of irrigation and drainage that affect the alleviation of hunger and poverty can be grouped into governance, rights-based development, water rights and pricing, management, efficiency improvement, and role of technology.
14. Both the potential and the need to make use of innovative technology and solutions in irrigation are underlined and these can be used to cater the challenges in different sub-sectors with focus on maximizing productivity and efficiency, reducing water losses, achieving sustainable intensification and managing demands on water resources and the associated trade-offs.



**Minutes of the 27th Meeting of the
AFRICAN REGIONAL WORKING GROUP (AFRWG)**

9 November 2016, 09.00-10.30 hours (Session I)

9 November 2016, 11.00-12.30 hours (Session II)

Chiang Mai, Thailand

Presented by the Chairman

Year of Establishment: 1994

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 Present: (1) Dr. Sylvester Mpandeli, Chairman (South Africa); (2) Vice President Mohamed Wahba representing Vice President Hon. Samia El-Guindy (Egypt); (3) Vice President Hon. Adama Sangare (Mali representative); (4) Dr. Hassan Abo-albasher Ali (Sudan representative); (5) Eng. Thubelihle A. Thebe (Zimbabwe representative); (6) Er. Harish Varma representing Secretary General Er. Avinash Tyagi.

Observers: (i) President Dr. Saeed Nairizi; (ii) Vice President Hon. Gerhard Backeberg (South Africa); (iii) Vice President Hon. Felix Reinders (South Africa); (iv) Mr. Ouango François (Burkina Faso); (v) Mr. Jean Bernard Dambre (Burkina Faso); (vi) Mr. Traore S Olimar (Burkina Faso); (vii) Dr. Ruey-Chy Kao (Chinese Taipei); (viii) Zeinab Behairy (Egypt); (ix) Jean-Yues Grosclaude (France); (x) Dr. Sylvain Perret (France); (xi) Mr. Waseem Nazir (Pakistan); (xii) Mr. Abdullahi Hassan (Somalia); (xiii) Ms. MJ Gabriel (South Africa); (xiv) Jan Potgieter (South Africa); (xv) Dr. Salih Hamad Hamid (Sudan); (xvi) Dr. Ahmed M. Adam (Sudan); (xvii) Hassan A Ali (Sudan).

Website: <http://afrwg.icidonline.org/>

AFRWG Minutes Item 1: Action taken report by Chair

1. At the onset, the Chair welcomed all the members and briefed them on the various activities of the group viz. interim meeting of the WG, position paper on Green Revolution, strategy for capacity building, training program on on-farm water use, 4th African Regional Conference etc. During the meeting, the Chair requested all members who are unable to attend the annual face to face meeting to make use the WebEx/ video-conferencing facilities made available by the Central Office to contribute to the activities of the group.

AFRWG Minutes Item 2: Brief report of the interim meeting of the WG on 27 April 2016, Egypt

2. Chair presented the brief report of the interim meeting of the working group held on 27 April 2016 in Egypt and shared with the members the document of "Capacity building strategy for Africa". The Chair highlighted that this strategy was adopted and approved during the AFRWG meeting in Montpellier in 2015. Chair further highlighted that this strategy is a living document and it will be updated every three years. The Chair thanked all the colleagues who submitted their inputs and comments during the development of the "Capacity building strategy for Africa". The majority of the participants agreed that this is a blue print for Africa and it needs to be implemented as soon as possible.

AFRWG Minutes Item 3: ICID Action Plan 2030 – Activities in African region

3. During the meeting, WG Chair presented draft Action Plan 2030 of the WG prepared by ICID Central office in consultation with him. Members reviewed the activities of the WG listed in the Action Plan 2030 and made suggestion with some initial ideas for actions and deliverables in respect of six organization goals of ICID. After deliberation it was agreed that the draft action plan may be taken as base for discussion together with the Capacity Building Strategy developed by the AFRWG as reference. WG Chair stressed the need of circulating the draft action plan to all members of AFRWG for inviting their feedbacks before its finalization. It was agreed that WG Chair would circulate action plan to all members and coordinate and facilitate finalization of the action plan of the AFRWG and its submission to the ICID Central Office.

AFRWG Minutes Item 4: Position paper on Green Revolution in Africa

4. As a follow-up of the recommendations of the 4th African Regional Conference on Irrigation and Drainage (ARCID) held in April 2016 at Aswan City, Egypt to prepare a position paper on 'Green Revolution in Africa', the ICID Central Office, in June 2016, circulated questionnaire to all members of the AFRWG including national committees requesting them to fill up the questionnaire and return to ICID by 15 August 2016. During the meeting, WG Chair briefly informed the members, background and status of the preparation of position paper on 'Green

Revolution in Africa'. The group noted that so far only three countries managed to submit the questionnaire to the ICID Central Office viz. Morocco, Sudan, and Zimbabwe. Chair encouraged all members to fill-up the questionnaire and send back to the ICID Central Office as soon as possible. WG Chair made it very clear that the Green Revolution initiative is for Africa, therefore, African countries needs to be proactive and also support this initiative.

AFRWG Minutes Item 5: Progress on implementation of the action program for Africa

AFRWG Minutes Item 5.1: Developments in irrigation and allied issues

5. During the meeting, the group noted and acknowledged that Southern African Regional Irrigation Association (SARIA) had successfully organized workshop on the theme "Rural fresh aquaculture" from 16-18 February 2016 in Malawi. Several participants from various countries including Botswana, Democratic Republic of Congo, Lesotho etc. attended the workshop including senior government officials from the Malawian government. The chair of the group informed that SARIA planned to host a symposium in 2017 in South Africa. The aim of the symposium is to assess if SARIA has achieved its milestones and targets sets in 2012, identify new thematic areas for the next three years etc.

AFRWG Minutes Item 5.2: Strategy for capacity building in Africa

6. WG Chair informed that the capacity development strategy document has been adopted during the Egypt meeting as a dynamic and living document to be updated regularly every 3 years. WG Chair emphasized need for organizing a symposium in 2017 to assess the milestones and identify new themes as part of phase 2 of the strategy. It was agreed by the members to prepare a 3 years work plan for capacity building on irrigation and drainage and a questionnaire will be prepared and circulated to the African national committees for the training needs assessment. ICID President Dr Nairizi mentioned that ICID will support in approaching the funding agencies to seek financial support for implementing this work plan.

AFRWG Minutes Item 6: Dissemination of Working Group's activities

7. Chair requested members for their active participation in the activities of the WG and facilitate exchange of information, knowledge and experience, as well as networking in order to keep themselves up-to-date with new developments, methods and innovative in the field of agriculture water management practices. Chair further requested members to contribute information/articles on their activities to the WG Chair as well as ICID Central Office so that same can be published in the ICID newsletter. WG Chair emphasized that members should make full use of WebEx platform for virtual meetings to ensure regular contribution to the activities of the group.

AFRWG Minutes Item 7: Report on Training program on 'On-farm water use and management', 17-24 April 2016, Egypt

8. WG Chair and VP Wahba presented a detailed report of the Training program on "On-farm water use and management" organized from 17–24 April 2016 in Cairo, Egypt. The training course was organized by the Egyptian National Committee on Irrigation and Drainage (ENCID) in partnership with ICID and the African Regional Working Group (AFRWG). Total 21 participants from 15 countries (Burkina Faso, Egypt, Iran, Kenya, Malawi, Mauritius, Morocco, Nigeria, Somalia, South Africa, Sudan, Uganda, Tanzania, Tunisia, and Zambia) participated in the training programme. The purpose of this capacity building training course was to capacitate scientists, agricultural and water managers on issues related to agricultural water management, irrigation, drainage management, soil – plant climate interactions, land degradation for irrigation including land levelling, irrigation methods, scientific design and layout of farm irrigation and drainage, efficiency at farm level, applications of modern techniques such as GIS and Remote Sensing for enhancing water use efficiencies at farm level, socio – economic and environmental aspects for water use efficiencies and increased productivity, water governance with focus on Water Users Associations, micro irrigation systems including drip, sprinklers, and rain gun for smallholder farmers, understanding water – energy – food nexus for better on farm management, hands on exercise for irrigation scheduling etc., participatory irrigation management, application of modern tools and modelling techniques for irrigation planning including crop water requirement, scheduling and management under different water supply scenarios, modern instruments and systems of irrigation such as sensor based weather data collection, flow measurement, soil water content measurement. WG Chair informed that he presented a paper titled "Understanding water – energy – food nexus for better on farm management" during the session on 17 April 2016. The WG noted that this was a very good training course meant to empower African scientists and professionals on water related issues. It was agreed that such training program should be regularly organised across all the African regions. Members were informed that after training programme participants attended 4th African Regional Conference at Aswan, Egypt.

AFRWG Minutes Item 8: Report on 4th African Regional Conference, 26-28 April 2016, Egypt

9. VP Wahba and WG Chair informed members that the Egyptian National Committee on Irrigation and Drainage (ENCID) hosted ICID's 4th African Regional Conference on Irrigation and Drainage (ARCID) at historical city of Aswan, Egypt, during 26-28 April, 2016. The main theme of the conference was "Agricultural Land and Water

Management for Sustainability under Climate Variability” and three principal topics were (i) Water Use Management, (ii) Food Security and (iii) Research, Extension Services and Capacity Development. About 250 participants representing policy makers, water managers and other stakeholders from 31 countries from all over the world, mainly from Africa, attended the conference. The ARCID Conference was sponsored by a number of partners - ICID, ENCID, Ministry of Water Resources and Irrigation, KRC, KCID, ICARDA, RTSWRI, NWRC, Arab Water Council, GIZ, WMRP, MWRI Planning Sector, Egypt Air, Banque du Cairo, FAO, National Bank of Egypt, among others. The main issues discussed in the conference were Global food problems and the role of irrigation and drainage, Emerging forces (Climate, urbanization, increase in energy prices), Water management challenges and water resources planning, Irrigation efficiency and crop productivity, Role of ICID in the African Green Revolution Global Initiative, Improving salt and water management, Use of non-conventional water in agricultural production, Public-private partnership, Stakeholders involvement and gender equality etc. One of the important recommendation of the conference was that ICID needs to prepare a position paper on second Green Revolution in Africa and to set up a mechanism to extend its support in the area of Agriculture water Management.

AFRWG Minutes Item 9: Review of membership of the group and countries

AFRWG Minutes Item 9.1: Membership of the group

10. During the meeting, Chair mentioned that in order to be a member of the working group, each National Committee need to nominate a professional and send his/ her CV to ICID Central Office. The group noted that in May 2016, the Central Office requested the National Committees of Ethiopia, Madagascar, Malawi, Mali, Morocco, Niger, Sudan, Tanzania and Zimbabwe to nominate a representative to join AFRWG to promote links, networking and also exchange of ideas among the African countries. WG Chair stressed and requested these NCs to nominate their representative as member of the WG. WG chair advised members/NCs to pursue non-member countries in their regional blocks to join the ICID as member. During discussion, it was agreed that National Committees should pay their annual membership subscription regularly and timely.

11. The AFRWG discussed and elected Vice President Dr. M.S. Wahba as the new Chair of the group, Dr. Sylvester Mpandeli as Vice Chair and Mr. Jean Bernard Dambre from Burkina Faso as Secretary of the WG. Membership status is given in **Annex 5 (page 33)**.

AFRWG Minutes Item 9.2: Membership of African countries

12. During the meeting, the group noted and appreciated the efforts being made by Egypt for development of a Memorandum of Understanding (MoU) with all the North African countries, and holding elections to decide on the chairmanship and location of the office. It was highlighted by a representative from the North African region that the process is still going on and may take some more time.

AFRWG Minutes Item 10: Any other business

Webinar/ web-based seminar:

13. WG supported suggestion of organizing webinars which will promote sharing of vast expertise available with ICID fraternity with Members of the NCs. WG Chair requested members to provide their suggestions on the topics, which are relevant and of interest to the members of the AFRWG, on which webinar can be considered along with name of the relevant experts who could be contacted to develop webinars.

14. The meeting ended with thanks to the Chair and members.



**Minutes of the 22nd Meeting of the
EUROPEAN REGIONAL WORKING GROUP (ERWG)**

09 November 2016: 09:00-10:30 hours (Session-I)

09 November 2016: 11:00-12:30 hours (Session-II)

Chiang Mai, Thailand

Presented by the Chairman

Year of Establishment: 1995

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

Members Present: (1) Mr. Ian Makin (UK), Chairman; (2) VPH Prof. Dr. Peter Kovalenko (Ukraine), Vice-Chairman; (3) Mr. Olli-Matti Verta (Finland), Secretary; (4) Dr. Sami Bourfa (France) represented by VPH François BRELLE; (5) VPH Laszlo Hayde (Hungary); (6) Mr. Marco Arcieri (Italy); (7) Dr. (Mrs.) Irena G. Bondarik (Russia); and (8) Er. Avinash C. Tyagi, Secretary General, ICID Central Office, New Delhi.

Observers: (i) PH Prof. Bart Schultz (The Netherlands); (ii) Vice President Prof. Dr. Charlotte de Fraiture (The Netherlands); (iii) VPH Peter S. Lee (UK); (iv) Ir. Wenyong Wu (China); (v) Mr. Bernard Vincent (France); (vi) Ms. Caroline Coulon (France); (vii) Ir. Mika Turunen (Finland); (viii) Dr. Sándor Szalai (Hungary); (ix) Dr. Gurbachan Singh (India); (x) Dr. Graziano Ghinassi (Italy); and (xi) Mr. David Vanneck (UK).

Website: <http://erwg.icidonline.org>

ERWG Minutes Item 1: Action Taken Report by Chair

1. VP Ian Makin (UK), Chair of the WG presented a report actions taken on the decisions made during the last meeting of the group at Montpellier (2015), France. Chair reported on the limited activities which he has been able to undertake since 21st Meeting of ERWG, noting the relocation from UK to Sri Lanka that has made physical participation in European events more difficult than originally anticipated. With support of the ICID Central Office, Chair proposes the ERWG to make use of the video conference facilities during the 2016/17 period to coordinate activities and to progress the proposed work plan as mentioned in the Agenda of ERWG under item 2.

ERWG Minutes Item 2: ICID Action Plan 2030: Activities relevant to European Region

2. The Chairman of the Group presented and discussed the draft Action Plan 2030 of the WG. Members were of the view that not all goals are relevant to the activities of the ERWG. Based on the action plan was updated (**Annex**). Views expressed and suggestions made by the members in respect of various related goals are given below.

3. **Goal 2- Be a catalyst for change in policies and practices:** This goal was seen as relevant in view of the European contribution to international knowledge on effective water management that would be of help for other regions. The ERWG will prepare a plan for a review of the European water policy. Members suggested that it would be useful to consider how issues of climate change with reference to agricultural water management could be better addressed in the European water framework directive. The ERWG noted that many of their members have a wide international experience and therefore may be more effectively be utilized as a resource for other regions. **Activity 2.1** (Review of European Water Policy) is accepted – with a shortened target timeframe of 2019 to ensure the report retains relevance.

4. **Goal 3- Facilitate exchange of information, knowledge and technology:** European countries are in a position to share their knowledge and experience with countries not within the ICID and even with international development agencies. Members from Italy informed that ITAL-ICID is planning to have a training courses for their professionals in the future and they are also in contact with University of Athens (Greece) encouraging Greece to rejoin ICID. Members suggested that IWF/ICID.UK could also try to make contacts with international organizations and encourage them to become member of ICID. WG Chair encouraged NCs to report their activities to the ICID Central Office for wider dissemination through e-Bulletin, News Update and ICID News.

5. Members from Italy and Hungary informed that their NCs are considering to organise regional conference in the forthcoming years and trying to arrange financial support for the same. Members were of the view that the topic for the European Regional Conference (ERC) could be related to the climate change and agriculture in WFD and the ERC's need to address cross-sectoral issues.

6. **Goal 5- Encourage research and support development of tools to extend innovation into field practices:** Although the members of the ERWG do undertake activities related to this goal but they felt that ERWG as a workbody may not be able to produce any deliverables under this goal.

7. **Goal 6- Facilitate capacity development:** Members were of the view that capacity development issue is a general issue for ICID and not limited to ERWG.

ERWG Minutes Item 3: Review of policy issues impacting irrigation and drainage sector

8. During deliberations in meeting of the Task Force on Revitalisation of ICID Network it was noted that European Union policies related to water resources sector have resulted in diminishing importance of policy making in irrigation and drainage in the countries. ERWG took note of this issue and included review of policy documents as one of the activity under Goal 2 “Be a catalyst for change in policies and practices”.

ERWG Minutes Item 4: Links with regional and trans-national organizations for co-operation

9. WG members briefed and discussed their membership, interaction and cooperation with a variety of regional and trans-national organisations. Members suggested that the ICID Central Office could send their e-Bulletin, News Update, ICID News and other publicity material directly to these organizations. Members further suggested that the e-Bulletin, News Update and ICID News could also be open for anybody to get through registration (subscribe and unsubscribe). WG Chair requested members and NCs to contact these organisations, review the list and update the contact details of the network so that ICID CO can send information directly to these organisations. ICID should also be increasingly active in social media, such as LinkedIn, Twitter, etc.

ERWG Minutes Item 5: Activities of Focus Groups of ERWG

10. The WG discussed the activities of various Focus Groups (FG) and their links to ICID Work Groups. Following decisions were taken based on the review and discussion during the meeting:

11. **Focus Group on History (VPH Laszlo Hayde):** The ICID WG-HIST is reformulating itself. The WG-HIST organised a side-event at the WIF2 in which FG took part. The ERWG noted that there are number of structures and systems in Europe that could be registered as a heritage (Historical Irrigation Structures). The Russian NC was congratulated for their effort on getting successful recognition of their one structure under HIS during WIF2. The ERWG encouraged all NCs to make nominations for the 2017 awards.

12. **Focus Group on Poverty Alleviation (PH Peter S. Lee):** PH Lee reported that the associated WG-POVERTY is no longer active so ERWG agreed to discontinue with this FG.

13. **Focus Group on Environment (Mr. Osmo Purhonen):** No discussion could take place in the absence of representatives from the WG as well as FG at the ERWG meeting so it was agreed that the WG Chair will follow-up with Mr. Osmo Purhonen to determine the status. Since the WG-ENV is active so the FG is likely to continue to be relevant and active.

14. **Focus Group on Drainage [renamed as Working Group on Sustainable Drainage, WG-SDG] (Dr. Irina Bondarik):** Dr. Irina Bondarik reported that the FG holds an annual workshop on Drainage issues and the last workshop was held in 2016 workshop in Lithuania for the Baltic region (including Russia, Belarussia and Finland). The FG will continue to be relevant and active.

15. The ERWG questioned the wisdom of the WG on Sustainable Drainage using the acronym WG-SDG, which had already caused some confusion as to whether this was focused on sustainable development goals rather than drainage! PCSO and IEC may wish to consider revising the acronym for the WG on Sustainable Drainage.

16. **Focus Group on Water Related Risks (Prof. Klaus Roettcher & Mr. Olli-Matti Verta):** Mr. Olli-Matti Verta reported that the FG is contributing in the compilation of the publication on Adaptive Flood Management by the WG-CAFM.

17. **Focus Group on Project Partnership and Financing (Ir. Leon Winjnker):** The FG is no longer active.

18. **Focus Group Irrigation and Drainage in the States under Socio-economic Transformation (WG-IDSST) (VPH Peter Kovalenko):** VPH Peter Kovalenko reported on the work of the WG Irrigation and Drainage in the States under Socio-economic Transformation (WG-IDSST) and proposed a new FG is established in alignment with the WG-IDSST. VPH Kovalenko was requested to provide the leadership for the FG and to report on progress during the 2017 meeting in Mexico.

19. Based on the discussions during the meeting, the revised program of Focus Groups for 2016/17 is as follow:
- (a) Focus Group on History (VPH Laszlo Hayde)
 - (b) Focus Group on Environment (Mr. Osmo Purhonen)
 - (c) Focus Group on Sustainable Drainage (Dr. Irina Bondarik)
 - (d) Focus Group on Water Related Risks (Prof. Klaus Roettcher & Mr. Olli-Matti Verta)
 - (e) Focus Group Irrigation and Drainage in the States under Socio-economic Transformation (VPH Peter Kovalenko)

ERWG Minutes Item 6: Revitalization of ICID network

20. ERWG noted that the issues of revitalization of the network (and the ICID Action plan) permeated all the agenda items. The main recommendation from the TF on Revitalization was noted as being to encourage NCs to reorganize to be less dependent on government support, including considering individual membership fees and increased support from private sector entities active in the I&D sector. The WG also considered the example from the UK, where the name has been revised to be the Irrigation and Water Forum (IWF) which has attracted an increased membership by young professionals and NGOs (such as WWF).

21. It was noted that although no European NCs had completed and submitted the TF-Revitalization questionnaire, Secretary General Er. Avinash C. Tyagi confirmed the questionnaire is still open and requested NCs to submit their response to questionnaire even now. Subsequently, IEC has decided that NCs may be given opportunity to submit their inputs up to 15th January 2017.

22. ERWG acknowledged the recommendations of the TF and the report to be submitted to IEC (IEC Agenda item 12) noting that the TF has not been able to complete all the tasks it was assigned.

23. Therefore, the ERWG recommend IEC to extend the term of the TF-Revitalization by one year until Congress in Mexico (2017) to enable integration of the answers from European NCs in the final recommendations, which was later approved by IEC (**Refer IEC Minutes, Item 12, page 7**).

ERWG Minutes Item 7: Dissemination of Information – Website

24. WG Chair VP Ian Makin noted that the ERWG web page has not been active in 2015-16. He committed to work with the WG members in the coming months to revisit the content with a view to ensuring the valuable information already present is accessible and obvious.

25. The ERWG discussed whether the current dissemination of e-News, News Update etc. from ICID CO to NC representatives was successful and whether direct email to NC member would be a viable option. While recognizing that CO has noted that less than 25% of emails to NCs are opened, ERWG members also commented that they are inundated with emails, both official and unsolicited, so additional email loads are unlikely to be welcome. The ERWG members suggested that CO may consider providing a facility on the ICID home page for any visitors to sign-up and unsubscribe from e-News and other ICID information products as well as CO may provide a searchable archive of e-News and other information products on the ICID web site. This would enable ICID members to determine how they access ICID information, i.e passively by regular mail delivery or actively by search on the web page (<http://erwg.icidonline.org>).

26. WG Chair requested the group members to ensure that CO is provided a short summary of any events held by the NC for sharing with the wider network through News Update.

27. In addition, the WG was pleased to welcome the presence and participation of 3 young professionals during the meeting. The YPs were requested to share their thoughts and expectations of ICID and also their insights on the use of alternative communications and dissemination tools, including social media. The young professionals of European NCs noted they could assist the ERWG on how to disseminate information and provide their suggestions on use of ICT tools. Young professionals from UK, France and Finland agreed to work with ERWG on this aspect.

ERWG Minutes Item 8: Review of the membership of the Working Group

28. The membership of the ERWG was confirmed as consistent with ICID procedures, including participation in the WG operations either through communication and/or participation in meetings of the WG. It was noted that all NCs should ensure that CO is informed of changes in the nominated email contact for the NC to ensure continuity in case of retirements and change of positions. No new nominations for membership were received during the meeting. The membership status is given in **Annex 5 (page 33)**.

ERWG Minutes Item 9: Any other business

Webinar/ web-based seminar

29. WG supported and considered suggestion of organizing webinars which will promote sharing of vast expertise available with ICID fraternity with Members of the NCs. However, no decision was taken and it was agreed that this issue will be reviewed, possibly through a video conference in January 2017.



Annex [Appendix V, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: VP Ian Makin (UK); VPH Peter Kovalenko (Ukraine), Vice-Chair and Mr. Olli-Matti Verta (Finland), Secretary

Date: 09 November 2016

	Activity	Outcomes / Outputs	Milestone for year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 2: Be a catalyst for change in policies and practices	WG Activity 2.1 Review of European/NC policy documents related to water resources that impact irrigation and drainage sector	Report	Compilation of various policies related to water resources by Members in their country and start review few most important policy document	Draft of policy review report with recommendation	Finalisation and issue of policy review report Continuation of review of remaining policy document		
Goal 3: Facilitate exchange of information, knowledge and technology	WG Activity 3.1 Organise Workshop / Seminar etc.	Proceedings of workshop/seminar etc.	To decide on theme and sub-themes for the workshop/seminar to be organised as internal/international workshop in the WG meeting	Workshop/seminar	Workshop/seminar including publication of outcome / recommendations from previous workshop	Workshop/seminar including publication of outcome/ recommendations from previous workshop	Workshop/seminar including publication of outcome/ recommendations from previous workshop
	WG Activity 3.2 27 th ERC (once a three year)	Proceedings of conference	To decide on theme and sub-themes and preparation of activity plan	Host NC to organise conference			Host NC to organise conference
Goal 6: Facilitate capacity development	WG Activity 6.1 To launch from Europe an international e-Discussion on Water issues and/or Environmentally Sustainable Water Management from Europe for Young Professionals	Knowledge sharing and capacity development of YP	e-Discussion on Water issues and/or Environmentally Sustainable Water Management from Europe like as 'IYPeF'	e-Discussion on Water issues and/or Environmentally Sustainable Water Management from Europe like as 'IYPeF'	e-Discussion on Water issues and/or Environmentally Sustainable Water Management from Europe like as 'IYPeF' Organise a Side Event in WIF3	e-Discussion on Water issues and/or Environmentally Sustainable Water Management from Europe like as 'IYPeF'	e-Discussion on Water issues and/or Environmentally Sustainable Water Management from Europe like as 'IYPeF'

**Minutes of the 23rd Meeting of the
ASIAN REGIONAL WORKING GROUP (ASRWG)**

09 November 2016, 09.00-10.30 hours (Session I) and 11.00-12.30 hours (Session II)
Chiang Mai, Thailand

Presented by the Chairman

Year of Establishment: 1996

Mandate: The general objective of the Asian Regional Working Group is to focus on common topics and issues and to enhance the transfer of appropriate technology in irrigation and drainage to and from the Asian Region. The mission of ASRWG is to encourage membership and to coordinate activities in the region.

Members Present: (1) Vice President Hon. Karim Shiati, Chairman (Iran); (2) Mr. Wang Xidong (China) represented by Prof. Wang Aiguo; (3) Mr. Naoki Hayashida (Japan); (4) Ir. Syed Abdul Hamid Bin Syed Shuib (Malaysia) represented by Ir. Mat Hussin Bin Ghani; (5) Mr. Arthon Suttigarn (Thailand); (6) Dr. Mochammad Amron (Indonesia); (7) Mr. Stephen Mills (Australia); and (8) Mr. Waseem Nazir (Pakistan) represented PANCID.

Observers: (i) President Hon. Dr. Gao Zhanyi (China); (ii) Vice President Hon. Dr. Hüseyin GUNDOĞDU (Turkey); (iii) Vice President Hon. Shinsuke Ota (Japan); (iv) Eng. Nasser Ahmad Fayez (Afghanistan); (v) Dr. Hayat Khan Shams (Afghanistan); (vi) Dr. Kuang-Ming Chuang (Chinese Taipei); (vii) Prof. Ray-Shyan Wu (Chinese Taipei); (viii) Jaw-Cheng Chen (Chinese Taipei); (ix) Yean-Yuan Chen (Chinese Taipei); (x) Dr. P. Soman, Direct Member, JISL (India); (xi) Dr. Ismail Widadi (Indonesia); (xii) Dr. Momon Sodik (Indonesia); (xiii) Prof. Robiyanto H. Susanto (Indonesia); (xiv) Bistok Simanjoak (Indonesia); (xv) Soekrasno (Indonesia); (xvi) Prof. Tsugihiko Watanabe (Japan); (xvii) Mr. Masao Miyazaki (Japan); (xviii) Katsuhiko Yoshino (Japan); (xix) Mohd Adnan Mohd Nor (Malaysia); (xx) Dr. Mu Than (Myanmar); (xxi) Nik Kun Nikman (Malaysia); (xxii) Ahmet Seren (Turkey); (xxiii) Omer Faruk Akbulut (Turkey); (xxiv) Bilge Omar (Turkey).

Website: <http://asrwg.icidonline.org/>

ASRWG Minutes Item 1: Action taken report by Chair

1. The working group was informed about the following important actions taken since Montpellier meeting viz. (i) Signing of a Memorandum of Understanding (MoU) for regional cooperation between Korean National Committee (KCID) and Iranian National Committee (IRNCID) and technical visits carried out by both sides (*refer Item 3*) and (ii) Two successful events with PAWEES and AARDO (African Asian Rural Development Organization) were held [*refer Items 4 and 5*].

ASRWG Minutes Item 2: ICID Action Plan 2030 – Activities in Asian region

2. Members reviewed the activities of the WG listed in the Action Plan 2030. The six goals were briefly presented with some initial ideas for actions and deliverables by the Chairman. Following the six organizational goals, the group discussed and firmed up the activities of the ASRWG (**Annex**) which included contribution to special issue of AARDO Journal, compilation of conference/workshop, proceedings, technical report etc.

ASRWG Minutes Item 3: Linkages with Regional and Transnational Organizations for Cooperation

3. The group discussed and noted that in May 2016, a Memorandum of Understanding (MoU) between Iranian National Committee (IRNCID) and Korean National Committee (KCID) was signed followed by technical exchanges and visits by both countries as part of regional cooperation. VP Bong Hoon Lee and VPH Karim Shiati appraised the WG on technical visits since such mutual technical collaboration/ visits/ exchange proved quite valuable. The chairman requested the WG members to advise on how the group could further enhance such regional cooperation. The WG was informed about future regional cooperation between Chinese Taipei Committee (CTCID), Indonesian National Committee (INACID) and Malaysian National Committee (MANCID). The outcomes of such collaboration will be presented at the next WG meeting at Mexico in October 2017.

ASRWG Minutes Item 4: Developing cooperative arrangements with International Society of Paddy and Water Environment Engineering (PAWEES) and International Network of Water Environment and Paddy Fields (INWEPF)

4. During the meeting, the group discussed and noted the collaboration between International Society of Paddy and Water Environment Engineering (PAWEES) and ASRWG. Prof. Tsugihiko Watanabe, the President of PAWEES expressed agreement with the PAWEES-ASRWG collaboration in general, and promised to support the ASRWG actively by preparing a draft proposal for such collaboration. The group noted that the 12th PAWEES

Conference with the theme “Sustainable Paddy Water Management in Water-Energy – Food Nexus” was held from 20-21 October 2016 at Daejeon city in Korea. As part of collaboration between PAWEES and ASRWG, a Conference on ‘Agricultural Water for the Development of Rural Society in Asia’ was organized on 20 October 2016. The conference was chaired by Prof. Kyung Sook Choi, as a member of ASRWG as well as Co-Chair of the Organizing Committee of the PAWEES. Prof. Kyung Sook Choi made a brief presentation on the joint conference. Some of the papers from this conference will be considered for inclusion in the Technical Report of the ASRWG-WT.

5. Prof. Watanabe, the President of PAWEES, appraised the WG about the PAWEES activities and suggested to encourage young professional’s participation. After the successful contribution of the WG to WWF7 in 2015, led by VPH Shinsuke Ota, the group offered to actively participate and contribute to WWF8 in 2018.

ASRWG Minutes Item 5: Work Team (WT) on “Contribution of Agricultural Water to the Rural Development in Asia”

6. During WIF2, a Side Event (SE) on ‘Agricultural Water Management for Sustainable Rural Development’, jointly organized by African-Asian Rural Development Organization (AARDO) and ASRWG on 7 November 2016 at Chiang Mai. Prof. Choi, the chair of ASRWG-WT, made a brief presentation on the outcome of Side Event where 7 papers were presented. Some of the presented papers will be considered for the publication of ASRWG-WT Technical Report and others for the special issue of AARDO Journal in 2017.

ASRWG Minutes Item 6: 8th Asian Regional Conference, Nepal in 2018

7. The group noted that the 66th International Executive Council (IEC) had approved the organization of the 8th Asian Regional Conference (ARC) in Nepal. The 8th Asian Regional Conference was proposed to be held in Kathmandu (Nepal) in March 2018. Mr. Madhav Belbase, President, Nepal National Committee (NENCID) made presentations in the PFC/ PCSO meeting. The NENCID will publish the first announcement in due course of time.

ASRWG Minutes Item 7: Publications of the Working Group

8. During Montpellier meeting, the WG discussed the outline of the technical paper of ASRWG-WT titled “Contribution of Agricultural water to the Rural development in Asia” to be published in 2017 during Mexico meeting and would be distributed in WWF8 in Brazil. Prof. Choi, the Chair of WT, made a presentation on the current status of the publication of the Technical Report. She informed on the number of papers collected, classification of papers, editorial processes and time schedule for the publication.

ASRWG Minutes Item 8: Membership of the Working Group

9. During the meeting, the group reviewed the membership nomination of Mr. Jaraev (Uzbekistan) and was accepted. The new nomination of Prof. Wang Aiguo in place of Mr. Wang Xiodong (China) received from CNCID was also accepted. The Iraqi National Committee (IRQCID) has nominated Mr. Shaimaa Shihab Ahmed and Mr. Ammar Salah Ahmed Manhee (*Young Professional*) for the membership of the group. Both the nominees were admitted as ‘Provisional Member’ until the nominee attend the meetings or else contribute to the activities of the working group through email/ video conference meeting. Membership status is given in **Annex 5 (page 33)**.

10. The group noted that Central Office had requested nomination for the group from the NCs of Bangladesh, Iraq, Kazakhstan, Pakistan, Philippines, and Sri Lanka. The representatives from Afghanistan (Eng. Nasser Ahmad Fayez) and Myanmar (Dr. Mu Than) were present in the meeting and the Central Office will follow-up their membership. The Central Office may continue to contact these NCs for WG membership.

ASRWG Minutes Item 9: Any other business

11. The IEC requested the group to increase the use of Video Conferences/ WebEx meetings in order to monitor the actions/ decisions of the WGs in cooperation with the Central Office. A virtual meeting through video conference also provides opportunity of participating in the activities of the WG for those members who were unable to attend the meeting physically. The chairman requested the WG to take note and organize the online meetings before the next meeting in 2017.



Annex [Appendix VI, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: VPH Karim Shiati (Chairman)

Date: November 10, 2016

		Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 2: Be a catalyst for change in policies and practices	2.1 Publication	Side Event with AARDO	Special Issue of AARDO Journal				
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 International conference/ workshop/ seminar	Compilation of proceedings		8 th Asian Regional Conference, March 2018, Nepal			
	3.2 ASRWG-WT "Contribution of Agricultural Water to the Rural Development in Asia"	Technical Report	Publish the Technical Report based on workshops/ Side Event	Contribute to WWF8			
	3.3 Linkages for International Cooperation	Collaboration / MoU	Exchange visits/ training between TUCID and IRNCID				
			MoU between IRNCID and KCID				
Goal 4: Enable cross disciplinary and inter-sectoral engagement	4.1 Developing inter-sectoral engagement		Collaboration between PAWEES and ASRWG				

**Minutes of the 7th Meeting of the
WORKING GROUP ON IRRIGATION AND DRAINAGE IN THE STATES UNDER
SOCIO-ECONOMIC TRANSFORMATION (WG-IDSST)**

08 November 2016, 11.15-13.15 hours

Chiang Mai, Thailand

Presented by the Chairman

Year of Establishment: 2009

Completion of the Mandate: 2016

Mandate: (1) To develop and strengthen the network among the countries of transition; (2) to organize monitoring and evaluation of common problems in the States that belong to transition economy; (3) 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; (4) to summarize the experiences in overcoming negative tendencies in organizing public-private partnerships, implementation of IWRM and broad-basing of stakeholder; (5) to monitor the ecological situation in the transition states, including problems of closed basin (Aral Sea, Caspian Sea), salinization and water logging, etc.; (6) development of appropriate advance irrigation and drainage technology in transition states and its dissemination through capacity building; (7) to promote farmer's training to create awareness about irrigated and drainage agriculture.

Members Present: (1) VPH Prof. Peter Kovalenko, Chairman (Ukraine); (2) Dr. Shukhrat Mukhamedjanov, Secretary (Uzbekistan); (3) Dr. Katsuyuki Shimizu (Japan); (4) Dr. Vijay K Labhsetwar represented Secretary General Avinash Tyagi.

Observers: (i) Dr. Sandor Szalai (Hungary); (ii) Dr. Liudmila Kireycheva (Russia); (iii) Dr. Irina Bondarik (Russia); (iv) Dr. Irina Glajunova (Russia); (v) Dr. Valezy Yashin (Russia); (vi) Mr. Bakhrom Gafozode (Tajikistan); (vii) Mr. Farkhad Abdurakhmanov (Tajikistan).

WG-IDSST Minutes Item 1: Action taken report by Chair

1. Chairman VPH Dr. Peter Kovalenko (Ukraine) presented the report on the actions taken on the various decisions/ proposals of the working group since Montpellier meeting. Chair briefed the members on the activities of the group viz. database of the group, preparation of closure report and scoping document.

WG-IDSST Minutes Item 2: ICID Action Plan 2030 – Activities for development of the States under socio-economic transformation

2. The Chairman Dr. Peter Kovalenko presented the draft Action Plan 2030 during the meeting. The group discussed and finalized the Action Plan 2030 as given in the **Annex**. The action plan includes activities such as publication, organization of workshops, compilation of database, training workshop, etc.

WG-IDSST Minutes Item 3: Develop and strengthen the network among the countries

3. The Chairman, while appreciating the past presentations from Hungary, Russia and Tajikistan, brought out the need to develop and strengthen the network among the countries and encouraged the members to accept the following actions:

- (a) To update information/ statistics on irrigation and drainage;
- (b) To publish/ disseminate the reports/ database through websites such as SIC-ICWC;
- (c) ICID Central Office to assist in the preparation of e-publication and its dissemination;
- (d) To organize regional meeting / workshop possibly before ICID Congress in 2017.

4. The members expressed their commitment to the actions as above.

WG-IDSST Minutes Item 4: Monitoring and evaluation of common problems in states with economy in transition

5. The Chair Peter Kovalenko presented a draft paper on Irrigation and Drainage in the States under Economic Transformation. The group accepted the paper after discussion and it was proposed to upload the paper on ICID website and update the same annually.

WG-IDSST Minutes Item 5: Create database on irrigation and drainage in the countries of transition

6. The WG was informed by the Chairman that a datasheet has already been circulated for creating the database on irrigation and drainage in the countries of transition. After discussion, the Working Group decided to synthesize/ compile the material/ data that is already available from a project report published in 2005 through the European Regional Working Group and new information available in 2016. Such database can then be uploaded on the ICID Website. Dr Mukhamedjanov (Uzbekistan) made a presentation on the paper titled "Water, Food and Energy NEXUS – is it possible?" which was authored by VPH Victor Dukhovny. The Chairman thanked Prof Dukhovny and accepted the paper after due discussion as an important contribution to the WG.

WG-IDSST Minutes Item 6: Closure report and revised mandate of the Working Group

7. The Chairman presented the 'Summary of activities' and 'Scoping Document' to the members. Members discussed and supplemented the renewed mandate of the WG after clarifications from the Chair. The revised mandate proposed is as follows:

- (a) to develop and strengthen the network among the countries of transition on the basis of establishment of monitoring and evaluation of common problems in the States and bring it to the attention of decision-makers in states;
- (b) 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; especially related to climate change and ability to adapt to it;
- (c) to promote implementation of IWRM and broad-basing of stakeholders by popularizing the case studies and best practices explaining the real content of IWRM principles;
- (d) to monitor the ecological situation in the transition states, including problems of closed basin (Aral Sea, Lake Chad, Lake Victoria, Caspian Sea), rivers deltas, salinization and water logging, land desertification etc.;
- (e) to collect appropriate advance irrigation and drainage technology for use in transition states and its dissemination through capacity building; to promote involvement young specialists as providers of these innovations; pay specific attention to use of RS technology in I&D;
- (f) to promote farmer's and WUAs training to create awareness about agricultural water management.
- (g) to increase the efficiency and functioning of the WG, intensify collaboration with other countries to share best practices and experience for development of irrigation and drainage in the States under socio-economic transformation.

8. The revised mandate as above was discussed and accepted by the members of the working group. As per procedure approved by the IEC for setting up of the new WGs, after submission of Scoping Document by the WG, it will be circulated to all NCs in order to ascertain their interest in the activities of the WG and their suggestions/ comments as well as for nominating members for the WG. Since the SD was not circulated to all NCs, it was proposed that the SD will be circulated to all NCs for their comments and nominations before finalization during the next meeting at Mexico City in 2017. Given the above, it was decided to request the PCSO/ IEC for extension of tenure and circulate the scoping document to all NCs, which was accepted in principle with the suggestion to further develop the scoping document for new WG.

WG-IDSST Minutes Item 7: Any other business

9. The meeting ended with thanks to the chairman.



Annex [Appendix VII, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: VPH Peter Kovalenko (Chair), VPH Viktor Dukhovny (Deputy Chair), Dr. Shukhrat Mukhamedjanov (Secretary)

Date: November 2016

Goals		Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 2: Be a catalyst for change in policies and practices	2.1 Publication	Technical paper	Compilation of papers	First draft	Final draft of Technical paper		
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Develop and strengthen the network	Workshops	Organize workshop		Organize workshop		
	3.2 Database on irrigation and drainage in the countries of transition	Database	Compile database	First draft of database	Final draft of database		
Goal 6: Facilitate capacity development	Training Workshop	Training Workshop	Organize Training Workshop		Organize Training Workshop		



**Minutes of the 27th Meeting of the
COMMITTEE ON CONGRESSES/CONFERENCES (C-CONGR)**

09 November 2016, 09:00-10:30 hours (Session-I)

09 November 2016, 11:00-12:30 hours (Session-II)

Chiang Mai, Thailand

Presented by the Chairman

Year of Establishment: 1990

Mandate: The mandate of the Committee is:(i) To recommend general improvement in conduct of WIFs, Congresses, Conferences and other ICID events; (ii) Representatives/Organizers of the ICID events to present a summary report of preparations made for the said events; (iii) Share the lessons learned / difficulties faced in organizing the events; and (iv) Make proposals for the smooth conduct of the ICID events.

Members Present: (1) Dr. Luis Felipe Alcocer (Mexico, 2016), Chairman; (2) Mr. Thanar Suwattana, THAICID representative; (3) VP Bong Hoon Lee, KCID representative; (4) Dr. Dominique Rollin, AFEID representative; (5) Mrs. Narges Zohrabi, IRNCID representative; (6) Mr. Anuj Kanwal, INCSW representative; and (7) Dr. Vijay K. Labhsetwar, Director, ICID Central Office.

Observers: (i) VPH Dr. Ragab Ragab (UK); (ii) VPH Laurie C. Tollefson (Canada); and (iii) VPH Franklin E. Dimick (USA); (iv) Mr. Kanchadin Srapatoom (Thailand); (v) Dr. Arthon Suttigarn (Thailand); (vi) Mr. Syaiful Mahdi Naumin (Indonesia); (vii) Mr. Bryan Ward (Australia); (viii) Ir. Carl Walters (Australia); (ix) Ir. Seung Won Lee (Korea); (x) Ms. Gong Ju (Korea); (xi) Dr. Youn Sun Lee (Korea); (xii) Dr. Gurbanchan Singh (India); (xiii) Engr. Waseem Nazir (Pakistan); (xiv) Mr. Stephen Mills (Australia); (xv) Dr. Waldo Ojeda (Mexico); (xvi) Dr. Gustavo Hinojosa (Mexico); (xvii) Ir. Warren Helgason (Canada); (xviii) Mr. Alireza Salamat (Iran); (xix) Mr. Daesu EO (Korea); (xx) Ir. Iraj Heidarian (Iran); (xxi) Ir. Atabak Jatou (Iran); (xxii) Ir. Mikaeil Hosseini (Iran); (xxiii) Ir. Ashraf Makvandi (Iran); (xxiv) Ir. Mojtaba Pourwoghadam (Iran); and (xxv) Ir. Mortaza Yazdkhasti (Iran).

Website: <http://c-congr.icidonline.org/>

Note: Dr. Luis Felipe Alcocer (Mexico) chaired the meeting in place of Dr. Luis Pimentel, the regular chair of the Committee.

C-CONGR Minutes Item 1: Action taken report by Chairman

1. Dr. Luis Felipe Alcocer (Mexico) presented a general report on various actions of the Committee taken since Montpellier meeting in 2015, like presentations of the members, feedback from the organizers of the past events, representatives from host National Committees etc.

C-CONGR Minutes Item 2: Overview of 2nd WIF & 67th IEC meeting, 6-12 November 2016 at Chiang Mai, Thailand

2. Mr. Thanar Suwattana, THAICID gave a general report about the Second World Irrigation Forum (WIF2) and 67th International Executive Council (IEC) Meetings hosted by Thai National Committee on Irrigation and Drainage (THAICID). The main theme of the Forum was "Water management in a changing World: Role of Irrigation for Sustainable Food Production".

3. The mega event was attended by over 1200 participants from 56 countries drawn from different disciplines including ministers, farmers, academicians, researchers, international scientific community, engineers, policymakers, industry and the irrigation managers. More than 300 abstracts/papers were received on various Sub-themes of the Forum; namely, (1) Key issues of irrigation and drainage in balancing water, food, energy and ecology; (2) Management of climatic extremes with focus on floods and droughts; (3) Key and small actions to alleviate hunger and poverty through irrigation and drainage, which were reviewed and finally 182 papers have been accepted. In addition, to the thematic sessions, one international workshop, two Roundtables, 4 Plenary Sessions, 18 Side events; and an International Exhibition were organised. Twenty-eight Young Professionals (YPs) participated in the activities of WIF2 and IEC meetings.

4. The Opening Address was delivered by H.E. General Chatchai Sarikulya, Minister of Agriculture and Cooperatives, Thailand; followed by a Keynote Addresses of Mr. Petipong Pungbun Na Ayudhya, Former Minister of Agriculture and Cooperatives of Thailand. During the Opening Ceremony of WIF2, H.E. General Chatchai Sarikulya, Minister of Agriculture and Cooperatives, Thailand; H.E. Tian Xuebin, Vice Minister of Ministry of Water Resources, China; and President Dr. Saeed Nairizi presented the World Irrigation and Drainage Prize, 2016 to Prof. Bart Schultz (The Netherlands) for his sustained, long standing and highly committed work to irrigation and drainage sector worldwide through education, research, planning and international project implementation. The

WID prize comprised of a cash award of US\$ 10,000, citation and a trophy. The award winning journey of Prof. Bart Schultz can be accessed at http://www.icid.org/wid_prize.html.

C-CONGR Minutes Item 3: Feedback from the organizers of the past events

C-CONGR Minutes Item 3.1: Feedback from 22nd ICID Congress and 65th IEC at Gwangju, Korea in September 2014

5. VP Bong Hoon Lee, President of the Korean National Committee of ICID (KCID) gave a presentation about the 22nd ICID Congress and 65th IEC. VP Lee gave impressive statistics, such as (i) participation of 1,345 delegates from 62 countries (ii) More than 420 delegates from foreign countries (iii) discussion/ presentation of about 140 papers and 88 Posters from 37 countries during the Congress. In his overview, he first briefly described each event and its importance in the congress. He then described the lessons learned and challenges faced. He informed how in-depth consultations with top policy makers helped them to initiate reactivation of Uganda national committee. In order to boost participation of developing countries, they were invited as well as supported to participate to share their experiences and technologies in Agricultural Rural Development. In his views, it was challenging to meet the Congress expenses. VP Lee informed that about 60% of the congress costs were met mainly from the government funds, 22% from private companies and 18% from registration fees. A proactive plan is necessary to secure financial support from Government or private industry. He emphasized on good communication and teamwork for efficient operation. Unification of commanding system is required for successful event. The selection of capable end efficient PCO is extremely important for the success of an international event like ICID Congress. VP Bong Hoon Lee and Mr. Daesu EO (Korea) offered themselves to MXCID, the next host of the ICID Congress, for guidance and/or assistance, if required. The presentation made by VP Bong Hoon Lee is available at Committee's webpage for more information.

C-CONGR Minutes Item 3.2: Feedback from 26th ERC and 66th IEC, Montpellier, France in October 2015

6. Dr. Dominique Rollin, President of the French National Committee of ICID (AFEID) presented a report on results and experiences in organizing the 26th ERC and 66th IEC. He emphasized on clearly defining the roles of scientific and logistic committees. The ERC had a very strong scientific component. Following were the strong organizational points for AFEID: (i) ERC had very dense scientific program, rich in content, many technical visits, cultural and social program every day for a week (ii) ERC had very positive performance indicators (number of participants were about 800 (25% from France) from 65 countries, 100% exhibitor space used, a good number of partners and funders, strong participation from African countries etc and (iii) ERC had well established Communication (*efficient website still working <https://icid2015.sciencesconf.org/?lang=en>*), regular dissemination of newsletters, successful guide of the conference, bringing out special issue I&D. The presentation made by Dr. Dominique Rollin is available at Committee's webpage for more information.

C-CONGR Minutes Item 4: Preparations for the future events for the next 3 years

C-CONGR Minutes Item 4.1: 13th International Drainage Workshop (IDW), 4-7 March 2017, Ahwaz City, Iran

7. Mrs. Narges Zohrabi, representative from IRNCID, gave a presentation about preparations made for the 13th International Drainage Workshop (13th IDW) to be held from 4-7 March at Ahwaz City in Iran. The announcement and call for papers of the 13th IDW have been issued and widely circulated amongst the National Committees (NCs), International Organizations and others. Mrs Zohrabi urged the NCs to actively participate in the 13th IDW in large numbers. More information on 13th IDW is available at the event web page <<http://www.idw13.org/English/>>. The presentation made by Mrs. Narges Zohrabi is available at Committee's webpage for more information.

C-CONGR Minutes Item 4.2: 23rd ICID Congress and 68th IEC, 8-14 October 2017, Mexico City, Mexico

8. Mr. Luis Felipe Alcocer, Secretary General of Mexican National Committee of ICID (MXCID) made a presentation on preparations made for the 23rd International Congress on Irrigation and Drainage and 67th International Executive Council (IEC) meetings to be held from 8-14 October 2017 at Mexico City, Mexico. The MXCID distributed the second announcement of the 23rd Congress to members and invited them to submit papers for the Congress in a big way. More information on the 23rd Congress and 68th IEC is available at the event webpage <http://www.icid2017.org/>. The presentation made by Mr. Luis Felipe Alcocer is available at Committee's webpage for more information.

C-CONGR Minutes Item 5: 8th Asian Regional Conference, Kathmandu, Nepal in 2018

9. It was informed that the 8th Asian Regional Conference (8th AsRC) will be hosted and organized by the Nepal National Committee of ICID (NENCID) in March 2018 at Kathmandu, Nepal. More information will be available in due course of time.

C-CONGR Minutes Item 6: 69th IEC meeting and 5th American Regional Conference, Saskatoon, Canada in 2018

10. VPH Laurie Tollefson, representative from CANCEID along with Mr. Warren Helgason from the University of Saskatchewan presented the status of preparations for the 69th IEC and 5th American Regional Conference to be held at Saskatoon, Canada from 12-17 August 2018. VPH Tollefson briefly described the conference themes and the venue together with other logistic arrangements. VPH Tollefson strongly recommended attending this conference as Saskatoon is a City of Science hosting the Global Institute of Food Security and Global Institute of Water Security as well. The presentation made by VPH Tollefson is available at Committee's webpage for more information.

C-CONGR Minutes Item 7: 9th International Micro Irrigation Conference, Aurangabad, India

11. Mr. Anuj Kanwal, Member Secretary of Indian National Committee on Surface Water (INCSW) made a presentation on the preparations being made for the 9th International Micro Irrigation Conference to be held at Aurangabad in India. The INCSW will be finalizing the date/year and Theme/sub-themes in consultation with the WG-SON-FARM. The presentation made by Mr. Anuj Kanwal is available at Committee's webpage for more information.

C-CONGR Minutes Item 8: Proposals for future ICID Conferences

12. ICID received proposals from the following NCs for the future ICID events as:

- (a) **IAL, Australia (2020):** The Irrigation Australia Limited (IAL) has offered to host the 24th ICID Congress and 71st International Executive Council (IEC) meeting in May 2020 at Sydney in Australia. Mr. Bryan Ward, CEO of IAL presented details of their capabilities to host the proposed 24th Congress, exhibition, and executive council meeting at Sydney in Australia. The IAL distributed the promotional material to the members. The presentation made by Mr. Bryan Ward is available at Committee's webpage for more information.
- (b) **IRNCID, Iran (2019):** The Iranian National Committee on Irrigation and Drainage has offered to host the 3rd World Irrigation Forum (WIF3) and 70th IEC meeting in September/October/November 2019 in Iran. Mr. Alireza Salamat, representative of IRNCID made a presentation outlining their capabilities to host the WIF3 and 70th IEC in Iran. The IRNCID distributed the promotional material to the members. The presentation made by Mr. Alireza Salamat is available at Committee's webpage for more information.
- (c) In addition, **Indonesian National Committee of ICID (INACID)** showed their interest in hosting the 3rd World Irrigation Forum and 70th IEC in 2019 as well.

C-CONGR Minutes Item 9: Membership of the Committee

13. During the meeting, the Committee has accepted the membership of Mr. Luis Felipe Alcocer (Mexico) who will be a new Chair of C-CONGR in place of Dr. Luis Pimentel until 2017. The membership status is given in **Annex 5 (page 33)**.

C-CONGR Minutes Item 10: Any other business

The meeting ended with thanks to the chair.



**Minutes of the 1st Meeting of the
ICID YOUNG PROFESSIONALS' E-FORUM (IYPeF)**
09 November 2016, Chiang Mai, Thailand

Year of Establishment: 2015

Mandate: (a) Encourage and promote a high standard of professional development amongst the young professionals in the field of irrigation, drainage, and flood management; (b) Provide an international platform for young irrigation and drainage professionals; (c) Expose young professional to ICID's purpose, objectives, role and activities; (d) Facilitate the wider dissemination of knowledge and information amongst the young professionals; and (e) Maintain and enhance links with national and international youth having interests in water related subjects or the activities, relevant to ICID objectives.

IYPeF Coordinators Present: (1) Ms. Kathleen Heuvel (Australia); (2) Ms. Adey N. Mersha (Ethiopia); (3) Mr. Mika Turunen (Finland); (4) Mr. Abdullahi Hassan Hussein (Somalia); and (5) Ms. Jakia Akter (Bangladesh).

Members and Observers Present: (i) Mr. David Vanneck (UK); (ii) Mr. Thubelihle A. Thebe (Zimbabwe); (iii) Ms. Jyotsana Chuchra Raheja (India); (iv) Mr. Wan Noorul Hafilah (Malaysia); (v) Mr. Mohamad Razali (Malaysia); (vi) Mr. Shinji Fukuda (Japan); (vii) Mr. Mortaza Yazdkhasti (Iran); (viii) Mr. Luu Ngoc Luong (Vietnam); (ix) Mr. Tha Pen Cung (Myanmar), (x) Mr. Mohamed El Hagarey (Egypt); (xi) Mr. Derek M Heeren (USA); (xii) Engr. Carlo Q Pimentel (Philippines) (xiii) Dr. Saeed Nairizi, President, ICID; and (xiv) Mr. Avinash C Tyagi Secretary General, ICID

LinkedIn Group: <https://www.linkedin.com/groups/6990321>

Note: This being the first meeting, Secretary General Avinash C Tyagi facilitated the meeting, with Ms Kathleen Heuvel as Coordinator of IYPeF.

Background

1. With the long term objectives of encouraging and promoting young professionals in the field of irrigation, drainage, flood management and environment, the 65th International Executive Council (IEC) held at Gwangju in September 2014, approved establishing an ICID-Young Professional's Forum (IYPeF) with open membership. In order to throw open ICID platform to all the young professionals interested in agriculture water management issues, an ICID Young Professionals e-Forum (IYPeF) as a new LinkedIn group (<https://www.linkedin.com/groups/6990321>) was established. The activities of the Forum will be monitored and overseen by a group of volunteer young professionals consisting of one coordinator and five joint coordinators that will act as the link to the ICID network. The Coordinator of the Forum shall report on its activities to IEC through Permanent Committee on Strategy and Organization (PCSO) during the annual Council meetings of ICID.

2. IYPeF will not only acts as virtual meeting place but also a platform that would serve as a stepping stone into annual events of ICID providing opportunities to the budding professionals for interaction with the best professionals in irrigation and drainage sector, present papers, avail latest information and join technical working groups.

IYPeF Minutes Item 1: Introduction

3. Secretary General welcomed the members of the IYPeF members and other observers. For the benefit of those members who had not yet participated in the e-Forum, SG recalled that consequent upon the approval of IEC at the 65th International Executive Council (IEC) held at Gwangju in September 2014, and final meeting of WG-YPF in Montpellier in 2015, ICID-Young Professional's e-Forum (IYPeF) with open membership has now been established. Accordingly, Central Office established a LinkedIn Group and invited membership from NCs, partner organizations, etc to participate in the Forum. He informed that as on date the e-Forum has more than 160 members.

4. SG informed that during June-September 2016, members had been active and organized e-Discussions. There was a good participation in these e-discussions. Based on these discussions, 9 most active members, based on the quality of participation, were selected for the scholarship to attend WIF2. All the members of the Forum participated in e-voting and selected one Coordinator, and 5 Joint Coordinators from the group of active members. These are: **Coordinator:** (1) Ms. Kathleen Heuvel (Australia); and **Joint Coordinators:** (2) Ms. Adey N. Mersha (Ethiopia); (3) Mr. Rafat Nael Al-Intaki (Iraq); (4) Mr. Mika Turunen (Finland); (5) Mr. Abdullahi Hassan Hussein (Somalia); (6) Ms. Jakia Akter (Bangladesh). Membership status is given in **Annex 5 (page 33)**.

5. The seniority among the coordinators elected was based on number of votes received. The members who got maximum votes was designated as Coordinator with the others as Jt Coordinators. Every year the bottom most 2 joint coordinators receiving least votes will leave their position for the new incumbents to be elected during the year. The maximum term of the any coordinator (or joint coordinator) would be for 3 years.

IYPeF Minutes Item 2: To review membership

6. SG informed that IYPeF received very encouraging participation from all the sub-sectors of the agriculture water management sector, which shows the interest of YPs in ICID activities. The present membership consists of more than 150 members. Members are encouraged to promote the membership to attract new players. The Forum also has about 20 senior professionals as its members who are invited to act as mentors during the e-discussions. Members were encouraged to promote the membership to attract new players. YP members may use the following link to invite colleagues to the discussion group: <https://www.linkedin.com/groups/6990321>. For inviting new members, the mandate of IYPeF could serve as a summary of what this group aims to achieve.

7. SG informed that the NCs, such as JNCID, MNCID, IRNCID, INACID and others, who have been actively involving Young Professionals in their national activities have been requested to inform their respective YP members of the establishment of the IYPeF and encourage them to join the Forum. Regrettably, the response from these members' countries, in respect of participation in the IYPeF has been far from satisfactory. He urged the representatives YP members present at the meeting to intimate all YPs on these new developments and establishment of IYPeF.

8. To strengthen the membership, it was also decided to update existing YP social media accounts such as Facebook, LinkedIn and further promote the e-forum discussions on twitter. A clarification was made that all discussions will, however, continue to take place on the LinkedIn platform.

IYPeF Minutes Item 3: e-Discussions

9. SG informed that e-Discussions were organized on three topics in order to provide inputs to WIF2 side events, (1) Role of Education in Irrigation and Drainage [15 July - 7 August 2016]; (2) Role of Women in Irrigation and Drainage Sector [28 Jul - 15 Aug 2016]; and (3) Role of New Technologies for Irrigation and Drainage [17 Aug. - 2 Sept. 2016]. VP Prof. Dr. Charlotte de Fraiture (The Netherlands), Ms. Badra Kamaladasa (Sri Lanka), and Ms. Jyotsana Chuchra Raheja (India) acted as mentors for the e-Discussion.

10. Based on the views expressed by participating members on the above topics, three best members were invited to prepare a two page write-up from the expression threads. Accordingly, Ms. Adey N. Mersha (Ethiopia), Ms. Kathleen Heuvel (Australia), and Mr. Mika Turunen (Finland) were selected for the presentations. Members expressed their satisfaction at the quality of discussions and informed the group about their experiences.

11. Members discussed the mechanism, how they can continue this activity making use of the IYPeF. They decided that the Group will organize e-discussions regularly at least one topic every quarter. The coordinator would discuss the issue with the joint-coordinators to finalize a tentative list of topics, would decide its schedule, identify the possible mentor for the topic in consultation with the Central Office and identify two other volunteers who will assist in the managing the discussion. The potential e-discussion topics could be: Application of technology to advance irrigation and drainage management; IWM framework; climate change and its impact on irrigation; the role of irrigation in food security; drainage issues; on-farm irrigation efficiency for small scale farming; and water auditing and accounting.

12. The members of the Forum were informed of the Congress Questions and topics of Seminars and Symposium (**Annex**) which could be kept in mind while deciding the topics for e-discussions. Based on the discussions, the concerned Joint coordinator will develop an Opinion Paper on the discussions. After the review process, the papers will be placed on ICID website and best paper(s) are published in ICID News/ News Update.

IYPeF Minutes Item 4: Webinar

13. The members recalled that Webinar/ Web-based seminars are the new way to reach wider audience through video conferencing. They decided to organize 2-3 Webinars with assistance from Central Office during the year. Some of the topics which were mentioned are: Technology for improved I&D (Ms Jakia Akter); ICID WatSave Awards (Mr. Mohamed El Hagarey to host); Water accounting & auditing (an extension of YP training session at Chiang Mai); Environmental impact analysis of irrigation systems using life cycle analysis (an extension of YP training session at Chiang Mai). Members decided to finalize the broad topics and a tentative schedule to organize these Webinars by the first week of January 2017.

IYPeF Minutes Item 5: Any other business

14. Members also discussed the possibilities of expanding the reach of the IYPeF by linking it with twitter and Facebook accounts. There were concerns regarding the privacy. The group left the choice of linking the IYPeF to Twitter and FB to the individual members.



Annex [Appendix IX. Item 3, para 12]

23ND INTERNATIONAL CONGRESS ON IRRIGATION AND DRAINAGE
8-14 October 2017, Mexico City, Mexico**Theme, Topics for Questions, Special Session, Symposium and Seminar**

Congress Theme: Modernizing Irrigation and Drainage for a new Green Revolution

Congress Questions (Topics / Sub-Topics)

Question 60: Water Productivity: Revisiting the concepts in light of water, energy and food nexus

Question 60.1 Emerging issues and challenges of water saving, including impact of transferring water out of agriculture

Question 60.2 Understanding water productivity, water and energy use efficiency and water footprint of crops

Question 60.3 Water security for growth and development

Question 61: State of knowledge of irrigation techniques and practicalities within given socio-economic settings

Question 61.1 Adopting precision irrigation and improving surface irrigation to combat water scarcity

Question 61.2 Using ICT, remote sensing, control systems and modelling for improved performance of irrigation systems

Question 61.3 Adaptability and affordability of new technologies under different socio-economic scenarios.

Special Session: Irrigation techniques for reuse of wastewater in agriculture and its impact on health and environment

Symposium Global Review of institutional reforms in irrigation sector for sustainable agriculture water management, including water users associations.

Seminar Water Use in food value chains



**Minutes of the 9th Meeting of the
WORKING GROUP ON WATER MANAGEMENT IN WATER
STRESSED REGIONS (WG-DROUGHT)**

10 November 2016: 09:00-10:30 hours (Session-I)

10 November 2016: 11:00-12:30 hours (Session-II)

Chiang Mai, Thailand

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2008

Completion of the Mandate: 2016

Mandate: (i) Drought Management Strategies: To capture field experiences of the implementation of drought risk management strategies; (ii) Coping with water scarcity: (a) Computations based on climate data as a tool to be used in coping with water scarcity; (b) Approaches and strategies for incorporating economic justification when deciding on the amount of water to be allocated for agricultural production; (c) Design, operation and maintenance of sand dams – Under-ground water reservoirs; and; (iii) Rainfall management for sustainable agriculture: Innovation and implementation of smart rainfall management technologies.

Members present: (1) VPH Mr. Franklin E. Dimick (USA), Chairman; (2) Mr. V.C. Ballard (Australia), Secretary; (3) Prof. Chang-Chi Cheng (Chinese Taipei); (4) Mr. Sudhakar (India), Direct Member, JISL represented by Dr. Sanjay Belsare; (5) Dr. Takanori Nagano (Japan); (6) VPH Ragab Ragab (UK); and (7) Mrs Jianxin Mu (China).

Observers: (i) VP Mohamed Abd-El-Moneim Wahba (Egypt); (ii) Ir. Kathleen Heuvel (Australia); (iii) Dr. Jan Ming-Young (Chinese Taipei); (iv) Ir. Zeinab Behairy (Egypt); (v) Ir. Eliyas Abdi (Ethiopia); (vi) Dr. Sándor Szalai (Hungary); (vii) Dr. P. Soman (India); (viii) Dr. Ismail Widadi (Indonesia); (ix) Ir. Mohd Anwar Musardar Yusoff (Malaysia); (x) Mr. Abdullahi Hassan Hussein (Somalia); (xi) Ir. N.G.R. Ariyaratne (Sri Lanka); (xii) Ir. G.M.R.A. Perera (Sri Lanka); (xiii) Ir. Jan Potgieter (South Africa); (xiv) Ir. Poekrat Panomkwan (Thailand); (xv) Ir. Bharadee Soontronrojna (Thailand); (xvi) Ir. Chawakorn Rewtragulpaibl (Thailand); (xvii) Dr. Shukhrat Mukhamedjanov (Uzbekistan); and (xviii); and (xix) Eng. Thubelihle A. Thebe (Zimbabwe).

Website: http://www.icid.org/wg_drought.html

WG-DROUGHT Minutes Item 1: Action taken report by Chair

1. VPH Franklin E. Dimick, Chairman of the WG apprised members of the actions taken as per decision in the last meeting of the Group at Montpellier in 2015. Chair informed the members that this is a final meeting of the Working Group on Water Management in Water Stressed Regions (WG-DROUGHT). It is proposed to establish a new but related WG which will concentrate not only on drought (which is a temporary period of water shortage due to natural climatic variation), but more on permanent shortages caused by such factors as climate change, movement of water from agriculture to urban / industrial use, and increased use of water for environmental purposes. During the meeting, the Group suggested a new name of WG as Working Group on Managing Water Scarcity under Conflicting Demands.

WG-DROUGHT Minutes Item 2: ICID Action Plan 2030: Activities on Drought

2. The WG discussed the need to complete the Action Plan but decided to defer discussion on this item since existing WG is completing its term and this was the final meeting of the WG. WG agreed that draft Action Plan 2030 of the WG will be prepared for the new Working Group in the first meeting of the new WG to be held in Mexico City, Mexico in 2017.

WG-DROUGHT Minutes Item 3: Presentations by Theme Leaders and other members

3. No presentations were made by the members during the meeting.

WG-DROUGHT Minutes Item 4: Publications of the Working Group

WG-DROUGHT Minutes Item 4.1: Technical Report of the WG-DROUGHT

4. WG established three work teams and identified three theme leaders associated with these themes to bring out technical report of the WG to fully cover its mandate, which are as follows: (i) Theme Leader 1 : Prof. Chanag-Chai Cheng (Chinese Taipei) - "Drought Management Strategies in Water Stressed / Scarce Regions"; (ii) Theme Leader 2: Mr. Mohammad Sadegh Jafari (Iran) - "Coping with Water Scarcity"; and (iii) Theme Leader 3:

Dr. Clarke Ballard (Australia) - "Rainfall Harvesting and Management for Sustainable Agriculture in Water Stressed /Scarce Regions". Status of preparation of report is as given below.

5. Final draft papers of Themes 1 and 3 were circulated to WG members prior to the meeting in Chiang Mai. No comments were received either prior to or during the meeting. Therefore, theme 1 and 3 documents will be finalized. Theme 2 document will be compiled by Prof. Dr Jan Ming-Young of Chinese Taipei based on the data gathered by Theme 2 Leader, Mr. Mohammad Sadegh Jafari (Iran) and the draft document will be made available for comments by March 2017. The final document is expected to be sent to the ICID Central Office by June of 2017.

WG-DROUGHT Minutes Item 4.2: Publication on Design Guidelines for Flood Based Farming Systems

6. Dr. Abraham Mehrari Haile (The Netherlands) was not present at the WG meeting to discuss the status of this publication. Since there is no updates from Dr Haile on the draft publication presented two years ago in Korea when the WG agreed to support it, so WG decided to drop this publication and no further action will be taken in the matter.

WG-DROUGHT Minutes Item 5: Updating Multilingual Technical Dictionary (MTD)

7. There were no volunteers for helping to update the MTD. Since the term of existing WG is coming to end and new Working Group "Managing Water Scarcity under Conflicting Demands" is proposed to be set up, WG agreed that a person for updating MTD will be nominated by the new WG in its first meeting at Mexico City in 2017.

WG-DROUGHT Minutes Item 6: Closure report and Scoping Document for reconstitution of the Working Group

8. A closure report of the WG-DROUGHT was presented by the WG Chair and accepted by the members of the group after discussion. WG discussed the scoping document for the new WG prepared by the WG Chair which also include three year plan of activities. After deliberation, members agreed that the new WG be named as 'Working Group on Managing Water Scarcity under Conflicting Demands (WG-MWSCD)' which is necessary to make a distinction that the new WG is not just involved with natural caused droughts but is also working with managing the scarcity of water when conflicting man-made demands are involved. WG also recommended following mandate (**Annex**) for the new WG:

9. **Mandate** : Collect information, knowledge and, where available, case histories on actions taken to manage water systems to accommodate a change in priority of water use or due to conflicting demands.

- (a) Information will be collected on three levels of water management; (1) National, (2) area or basin; and (3) local;
- (b) review and analyze information to determine any commonality;
- (c) prepare and present reports and/or case studies on recent development in the countries that are represented in the WG
- (d) organize international workshop on the topic;
- (e) prepare an overview paper on the topic for publication.

10. PCTA accepted in principle with the suggestion of setting up of new WG with the revised madate and suggested to take further action as per procedure approved by the IEC for setting up of the new WGs, Accordingly, scoping document (SD) finalised by the WG will be circulated to all NCs by ICID CO to ascertain their interest in the activities of the WG and their suggestions/comments as well as for nominating members for the WG. The SD will be further discussed and finalized during the next meeting at Mexico City in 2017 for its approval by PCTA/IEC.

WG-DROUGHT Minutes Item 7: Dissemination of activities of WG - Website of the Group

11. WG requested Central Office to create a new webpage of the new working group for the activity. WG also requested members to provide information, papers, presentation made on topics related to scope of work of the WG to the ICID Central Office for uploading on the web site of the WG.

WG-DROUGHT Minutes Item 8: Review of membership of the working group

12. Since present WG term will be completing its term and new WG is going to be set up, WG Chair recommended that the members of the present group be automatically considered to be members of the new group and NCs be requested to nominate new members especially form the countries known to have relevant

experience with managing conflicting demands for water. During the meeting number of individual participants expressed their interest in joining the new working group. They were advised to get themselves nominated through their National Committee in the usual way. New nomination of Ms. Jianxin Mu (China) for the membership of WG which has been accepted as a 'provisional member' of the new WG. The membership status is given in **Annex 5 (page 33)**.

WG-DROUGHT Minutes Item 9: Any other business

Webinar/ web-based seminar

13. WG Chair requested members to suggest few topics along with name of the relevant experts who could be contacted to develop webinars for consideration of the ICID CO. WG decided to discuss this matter further during the next meeting.



**WORKING GROUP ON
MANAGING WATER SCARCITY UNDER CONFLICTING DEMANDS (WG-MWSCD)**

DRAFT SCOPING DOCUMENT

1. Introduction

- 1.1 Historically, the use of water for agricultural purposes was generally recognized as a priority. However, as the population and demographics of an area has changed over time, so has the priority for the use of water? In many areas, use of water for agricultural purposes has become of secondary importance to other uses. Demand for Municipal and Industrial water for growing population centers and the demand for clean drinking water in rural areas have taken precedence over agricultural uses. The growth of the environmental movement throughout the world to protect fish and wildlife has placed an additional demand on the limited supplies of water. In many areas of the world this environmental demand has been given priority over the use of water for agricultural purposes. This change of use priority is expected to continue in the future.
- 1.2 The effects of climate change in many areas of the world has also created a permanent shortage of water for agricultural purposes as dwindling water supplies are used first to supply adequate drinking water supplies to the growing population. Climate change is also changing the timing of when water is available. Areas that depended on melting snow in warmer months are now getting rainfall instead of snow. The reverse is also true. Areas that historically depended on rainfall are now getting snow.
- 1.3 These changes in the prioritization of the limited water resource are causing agricultural water users to make management changes to the way they approach the collection, diversion and use of the limited water supply available to them. These management changes are crucial in efforts to assure sustainable food production.

2. Objectives

- 2.1 Relevance of the Working Group
 - 2.1.1 The relevance of the WG can be specified as follows:
 - (a) The topic of Managing Water Scarcity Under Conflicting Demands is relevant to the vision and mission of ICID and of interest for its members in all countries;
 - (b) The WG is expected to contribute to effective implementation of the Strategy Theme Basin and to other strategy themes for that matter;
 - (c) It may be expected that in the future the need for adaptive management will continue to increase.
- 2.2 Relevance of the Working Group to the scope of the Thematic Area
 - 2.2.1 For the relevance of the WG to the scope of the Thematic Area the same argumentation is applicable as shown under the relevance. Most of the activities in irrigation will be related to the manner in which water is managed and how well management schemes adapt to the changes in water priorities. This concerns the technical, institutional and environmental aspects.
- 2.3 Existing gap that the Working Group is expected to fill
 - 2.3.1 Other ICID WGs or Task Forces (TF) that have a related scope of work are: WG-SDTA, WG-CAFM, WG-CLIMATE, WG-M&R, WG-SON-FARM and the new WG-IOA
 - 2.3.2 While WG-IOA is proposed to study the management of irrigation systems, it will focus on the administrative aspects of water management. The WG-MWSCD will focus on the water supply changes that these management entities need to address. Therefore, the two Working Groups will be able to work closely together and complement each other.
 - 2.3.3 The new WG has taken good note of the activities of these Workbodies when preparing this Scoping Document.

3. State of knowledge on the topic

3.1 Other International Organizations that are working on the subject

3.1.1 There are several other International Organizations that have programs and activities on this topic. This especially concerns the:

- (a) Food and Agriculture Organization of the United Nations (FAO);
- (b) International Water Management Institute (IWMI)
- (c) International Center for Agriculture Research in Dry Areas (ICARDA);
- (d) International Fund for Agricultural Development (IFAD);
- (e) International Commission on Large Dams (ICOLD);
- (f) World Bank (WB);
- (g) World Water Council (WWC);

3.2 Mandate of the Working Group

3.2.1 Mandate of the Working Group is based on the specific niche that this WG can fill in this area and can be formulated as follows:

- (a) Collect information, knowledge and, where available, case histories on actions taken to manage water systems to accommodate a change in priority of due to conflicting demands.
- (b) Information will be collected on three levels of water management; 1) National, 2) area or basin, and 3) local;
- (c) review and analyze information to determine any commonality;
- (d) prepare and present reports and/or case studies on recent development in the countries that are represented in the WG;
- (e) organize international workshop on the topic;
- (f) prepare an overview paper on the topic for publication.

3.3 How is the Working Group expected to collaborate with the other International Organizations?

3.3.1 International Organizations can contribute to the activities of the WG by nominating Permanent Observers (PO). On the other hand presentations of the work and achievements of the WG can be presented at the occasion of events organized by International Organizations.

4. Work Plan

4.1 Scope

4.1.1 The WG is expected to investigate, analyze, and disseminate information on adaptive management processes and to formulate recommendations with respect to:

- (a) planning and preparation for reduced water supplies due to changing priorities for the use of a finite water supply;
- (b) commonality in processes used by various entities at three separate levels of governance;
 - National
 - area or basin
 - local
- (c) developing and recommending management strategies that could be used in a general setting;

4.1.2 A proposal for the three year rolling plan is shown in **Appendix A**.

4.2 Target audience

4.2.1 The target audience for this working group will be managers of irrigation schemes, researchers, consultants, manufacturers, government officials, farmer's representatives and staff of International Organizations working on the topic.

4.3 Outputs

4.3.1 The following outputs can be expected from this WG:

- (a) although it is an indirect output sharing of knowledge and experience by representatives of NCs, which will also enable them to disseminate this knowledge within their country;
- (b) the WG is expected to organize a workshop at occasion of an international ICID meeting;
- (c) publish an overview paper on management of water scarcity in areas of conflicting demands with recommendations for implementation.

4.4 Timelines

4.4.1 It is recommended that the initial term of this WG will be set at 5 years. The timeline would have to be based on the scope of work and the expected output. Details of the timeline would have to be formulated and refined during the inaugural meeting of the WG.

4.5 Collaborators and dissemination strategy

4.5.1 The WG would have to base its activities on an open attitude with a clear scope for invitation of outsiders that are interested in the topic on a Permanent Observer (PO), or ad hoc basis.

4.5.2 The dissemination strategy would have to be based of reaching those who can apply the findings and recommendations of the WG in their research and especially in policy development, decision making and implementation in practice.



Appendix A [Annex, para 4.1.2]

Three Year Rolling Plan

Item of Mandate	2016	2017				2018				2019				Actor(s)
Scoping document to PCTA														Convenor
Comments on Scoping document from PCTA and informal meeting														Participants informal meeting
Finalizing Scoping Document and detailing of Workplan														Convenor
Invitation to NC for nominations and information														Central Office
Submission of nominations and information														National Committees
1st Meeting Mexico City														Members and Permanent Observers
Exchange of information, knowledge, experience, networking														Members and Permanent Observers
Solicit information and case histories of adaptive management processes														Members and Permanent Observers
2nd Meeting Saskatoon Canada														Members and Permanent Observers
Preparation and presentation of reports and/or case studies														Members and Permanent Observers
Organize international workshop														Some Members
3rd Meeting including Workshop														Members and Permanent Observers

**Minutes of the 6th the Meeting of the
WORKING GROUP ON SUSTAINABLE DEVELOPMENT OF TIDAL AREAS (WG-SDTA)**

10 November 2016: 09:00-10:30 hours (Session-I)

10 November 2016: 11:00-12:30 hours (Session-II)

Chiang Mai, Thailand

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2011

Completion of the Mandate: 2016

Mandate: (i) Identify sustainable management options of lowland, watershed, as well as sustainable development and management of water and land resources in tidal areas; (ii) To raise awareness of the increasing risk on tidal areas due to global climate change, stimulate discussion on impacts and mitigation, and find a balance between the preservation and development of tidal areas; (iii) To enhance survey, design techniques and monitoring and management programs for the irrigation and drainage facilities, and apply to collect information about the tidal area environment around the world; (iv) To review the progression of natural wetland conservation and constructed wetland development in tidal areas; (v) To join the international dialogue and organize international conferences to promote land and water management in tidal areas as well as evaluate the feasibility of tidal energy exploitation under global climate change; and (vi) To collaborate with other related working groups actively, and to exchange relevant experiences amongst NCs and support for developing, and least developed countries.

Members Present : (1) Dr. Ruey-Chy Kao, Chairman (Chinese Taipei); (2) Dr. Hajime Tanji, Secretary (Japan); (3) Dr. Hsiao-Wen Wang (Chinese Taipei) represented by Ir. Ming Jen Kao; (4) Prof. Budi Santoso Wignyosukarto (Indonesia) represented by VPH Hafied Gany; (5) Dr. Jeongryeol Jang (Korea); (5) Prof. Zhang Zhanyu (China) represented by VP Dr. Ding Kunlun; (6) Ir. Hj. Nor Hisham bin Mohd Ghazali (Malaysia); and (7) Dr. Vijay K. Labhsetwar, Director, ICID represented Er. Avinash C. Tyagi, Secretary General.

Observers : (i) VP Bong Hoon Lee (Korea) (ii) Mr. Robiyanto Hendro Susanto (Indonesia); (iii) Dr. Shinsuke Ota (Japan); (iv) Dr. Daesu EO (Korea), (v) Ir. Jakia Akter (Bangladesh); (vi) Ir. Kun Chuan Chang (Chinese Taipei); (vii) Ir. Li Ruoxi (China); (viii) Dr. Ismail Widadi (Indonesia); (ix) Mohd Azmi Ismail (Malaysia); and (x) Dr. Anuj Kanwal (India).

Website: <http://wg-sdta.icidonline.org>

WG-SDTA Minutes Item 1: Action Taken Report by Chair

1. The Chairman Dr. Ruey-Chy Kao presented the report of actions taken during the period since last meeting of the WG at Montpellier (2015). The Chairman informed that he actively communicated with WG members, contributors and ICID Central Office on activities such as Special Issue on SDTA, organization of the International Short Course during 1-6 August 2016 at National Cheng Kung University (NCKU) at Tainan City in Chinese Taipei and MoU with Rural Research Institute (RRI) of Korea Rural Community Corporation (KRC) etc.

2. WG Chair informed that participation of two participants from Korea i.e. (a) Dr. Joengryeol Jang (a member of WG-SDTA) and Mr. Byong Jun Park of the Rural Research Institute (RRI) of Korea Rural Community Corporation (KRC), Republic of Korea connected R.R.I., Korea with the organizer, Prof. Kao, Chairman of WG-SDTA, Tainan Hydraulic Laboratory (THL), National Cheng Kung University (NCKU) and Water Resources Agency (WRA, MOEA), Chinese Taipei, paving way for signing of the MoU for future cooperation. The MOU was signed during the WG meeting in Chiang Mai.

3. Prof. Henk P. Ritzema and Prof. Hsiao-Wen Wang have worked for the publication of Special Issues of ICID Journal on SDTA in 2016. The response was good and the review process is also ongoing as planned. The whole process is expected to be completed in early 2017.

WG-SDTA Minutes Item 2: ICID Action Plan 2030: Activities on Sustainable Development of Tidal Areas

4. The Chairman Dr. Ruey-Chy Kao briefly presented the draft Action Plan 2030 to the members for discussion. The Working Group discussed and finalized the draft Action Plan 2030 as given in **Annex 1** for onward submission to PCTA towards finalizing the ICID Action Plan for Vision 2030. The Action Plan 2030 includes activities such as workshop proceedings, Special Issue of IRD, Short Course/Training, e-Discussion on Sustainable Development of Tidal Areas etc.

WG-SDTA Minutes Item 3: Report on International Short Course on SDTA, 1-6 August 2016 at Chinese Taipei

5. The Chairman informed that the International short course on “Resilience and Adaptations to Climate Change for Sustainable Management of Tidal Areas” was successfully held during 1-6 August 2016 at National Cheng Kung University (NCKU) at Tainan City in Chinese Taipei. The course provided a good opportunity for the participants for face to face discussions, sharing experiences and learning from field trips and observations. The contents of the course were made rich by the presentations from experts and guest speakers on the subject. The participants learned a lot from each other, enriched their knowledge and got inspired in their professional duties. All the participants were satisfied with the course and gave good feedback afterwards.

6. The Chairman held an interim meeting of the WG members present after the course and discussed the preparation of Scoping Document for continuing the activities of the WG for another 6 years besides discussing issues emerging from the Montpellier meeting in 2015.

7. The Chairman informed that the short course resulted in landing two nominations, one each from Sri Lanka (Eng. L.S. Sooriyabandara) and India (Mr. Anuj Kanwal) for the membership of WG-SDTA by their NCs (See Item 9).

WG-SDTA Minutes Item 4: e-Discussion on ‘Sustainable Development of Tidal Areas’ launched during the Short Course on SDTA at Chinese Taipei

8. The Chairman informed the members during the meeting that the idea of launching an e-Discussion on ‘Sustainable Development of Tidal Areas’ was developed during the short course, discussed with the members of the WG during the interim meeting at Chinese Taipei and launched soon after the short course. All the participants in the course were invited to join and contribute to the e-discussion.

9. The Chairman brought the attention of the members to the “ICID-Young Professional's e-Forum (IYPeF)” which has been established in LinkedIn (<https://www.linkedin.com/groups/6990321/profile>). The e-Discussion was a great way to share and discuss knowledge and experience, not only among the Young Professionals but also among the members.

WG-SDTA Minutes Item 5: Publications of the Working Group: A Special Issue of ICID Journal on SDTA in 2016

10. The WG decided to publish a Special Issue of ICID Journal titled “Sustainable Development of Tidal Areas: Climate Change and Environmental Impacts” in early 2017. The Chairman informed that the ‘Review Committee’ has been continuously reviewing the papers for publication. About 10 papers are under consideration. Prof. Ruey-Chy Kao, and Prof. Hsiao-Wen Wang will develop the editorial in due course of time. The Chairman informed that the whole process may take some more time and the Special Issue can be expected to be published in early 2017.

WG-SDTA Minutes Item 6: Updating Multilingual Technical Dictionary (MTD)

11. WG discussed about the updating of MTD. Though at the Montpellier meeting (2015), Chair of the WG discussed the issue and Prof. Hajime Tanji (Japan), Secretary of the WG volunteered to take up the task. However, due to Prof. Tanji's illness, the task has been paused for a while. The JNC-ICID will continue to take the task. The Chair will contact with JNC-CID for future information.

WG-SDTA Minutes Item 7: Summary of activities, Closure report and Scoping Document for a new WG

12. The activities of 2011-2016 were discussed in the meeting of the WG. After deliberations, WG agreed that in future emphasis will have to be on collaborations among WGs and NCs and on the interdisciplinary and participatory concept on planning and management in tidal areas. WG discussed the scoping document of the new WG and agreed to the following ‘scoping plan and mandate’ for 2016-2022 (**Annex 2**):

- (a) To understand the existing and potential challenges and opportunities of tidal areas for now and the future by figuring out underlying issues;
- (b) To raise awareness of the increasing risk on tidal areas due to global climate change and stimulate interdisciplinary discussions on impacts, mitigation, and adaptation
- (c) To enhance survey, design techniques, and monitoring and management programs for the irrigation and drainage facilities, and apply to collect information about the tidal area environment around the world;

- (d) To identify sustainable development and management options in tidal areas, and find a balance between the conservation and development of tidal areas with acknowledgement of ecosystem services;
- (e) To join the international dialogues and organize international conferences and short courses to promote interdisciplinary and participatory land and water planning and management in tidal areas;
- (f) To collaborate with other related working groups actively, and to exchange relevant experiences amongst NCs and support for developing, and least developed countries.

WG-SDTA Minutes Item 8: Dissemination of activities of WG - Website of the Group

13. WG Chair encouraged the members to meet more on-line to apprise, share ideas and look for solutions.

WG-SDTA Minutes Item 9: Review of membership of the working group

14. The India National Committee on Surface Water (INCSW) nominated Mr. Anuj Kanwal; the Sri Lanka National Committee (SLNICID) nominated Eng. L.S. Sooriyabandara and the Iraqi National Committee of ICID (IRQCID) nominated Eng. Ibrahim Abbas Dawood and Eng. Ghanim Hameed Hassan Alhashimi (Young Professional) for new membership. With the presence of Mr. Anuj Kanwal (India), he was officially accepted as a member of WG-SDTA while Eng. L.S. Sooriyabandara (Sri Lanka), Eng. Ibrahim Abbas Dawood and Eng. Ghanim Hameed Hassan Alhashimi (Iraq) were provisionally accepted as they were not present. The Chair will continuously contact with them. One attendee, Ms. Jakia Akter from Bangladesh, showed her interests to join the WG. She was advised to send her nomination to Central Office through Bangladesh National Committee to follow the official procedure of being a member of WG. Membership status is given in **Annex 5 (page 33)**.

WG-SDTA Minutes Item 10: Any other business

15. The participants have shown their keen interest in the WG activities, particularly in the tidal areas (including coastal, river mouth, etc. areas) and hoped to have more experience sharing with the WG. The Chair will include these ideas into the future activities.

Webinar

16. WG Chair requested members to suggest few topics along with name of the relevant experts who could be contacted to develop webinars for consideration of the ICID CO. WG decided to discuss this matter further during Web-Ex meeting.



Annex 1 [Appendix XI, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: Prof. Dr. Ruey-Chy Kao, Dr. Henk P. Ritzema (Vice-Chairman), Dr. Hajime Tanji (Secretary) and Dr. Hsiao-Wen Wang

Dated: 10 November 2016

		Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021	Milestone for Year 2022
Goal 1: Enable higher crop productivity with less water and energy			Milestone 1	Milestone 2	Milestone 3	Milestone 4	Milestone 5	Milestone 6
	Activity 1.1 Promoting sophisticated water-saving irrigation development with Internet of Things and water-saving irrigation model techniques exchanges	Technical concept report, Workshop proceeding and Water Industry Web Site	Preparation: Promoting demonstrative plan	Site tests demonstration: Hardware construction and software tests	Site tests demonstration: Hardware, software and system control integrating process	Site tests plan: Workshop observation	Examination Plan results and improvement	Examination: Plan results and improvement
	Activity 1.2 Promoting up-to-date water-saving experience exchange	As above	As above	As above	As above	As above	As above	As above
Goal 2: Be a catalyst for change in policies and practices	Activity 2.1 Experience exchange in policies and practices for sustainable management	Workshop	Workshop	Workshop	Workshop	Workshop	Workshop	Workshop
Goal 3: Facilitate exchange of information, knowledge and technology Providing platform for AWM Professional	3.1 Organise internal / International technical Workshop on modernization of Irrigation System with other WG or NCs	Workshop Proceedings	Workshop		Workshop		Workshop	
	3.2 Special Issue of ICID Journal on SDTA	Special Issue of Irrigation & Drainage	Announcement of special issue, inviting authors etc.	Setup Review Committee for selected papers based on the workshops	Submission of final drafts	Publishing Special Issue of IRD		
Goal 6: Facilitate capacity development	6.1 Short Course/ Training Workshop on Sustainable Development of Tidal Areas	Technical transfer and Internet information Short course/ Training Workshop	Scope, theme and announcement	Short Course/ Training Workshop on SDTA		Short Course/ Training Workshop on SDTA		Short Course/ Training Workshop on SDTA
	6.2 To launch e-Discussion on Sustainable Development of Tidal Areas	E-Discussion	e-Discussion on Sustainable Development of Tidal Areas		e-Discussion on SDTA		e-Discussion on SDTA	



Annex 2 [Appendix XI, Item 7]**SCOPING PLAN AND MANDATE (DRAFT)**

1. Based on the previous mandate and action plan of 2011-2016, the WG achieved the following:
 - (a) There was one handbook published.
 - (b) There were 6 workshops held including 2 International ones and 4 internal ones. Twelve papers from these workshops were selected to be listed in the Special Issue of ICID Journal.
 - (c) The CTCID, JNC-ICID and KCID have sponsored 3 WG publications. Further, the CNCID has sponsored 1 publication.
 - (d) The International Short Course on “Resilience and Adaptations to Climate Change for Sustainable Management of Tidal Areas” started from late 2015. The WG invited 5 lecturers and 2 keynote speakers from the Netherlands, USA, Japan, Korea and Chinese Taipei to share their experiences with the 20 participants from 14 countries covering Asia, Africa and North America at National Cheng Kung University (NCKU), Tainan, Chinese Taipei, from August 1-6, 2016. The participants have given positive feedback for the short course.
2. During 2011-2016, WG-SDTA held a series of activities and roughly learned the situations about the tidal areas of the coastal countries. They are facing the paradox of the competition and cooperation as well as how to balance between development and conservation. In addition to the updated professional techniques and the public monitoring of data the stakeholders’ involvement should strengthen the communications of knowledge and concepts. Furthermore, they are able to include both development and conservation by experience and technique consultant from other countries.
3. The tidal level variations directly influence the drainage systems of the coastal countries. In order to reduce the loss of property and lives, the constructing intelligent flood control system would be a solution by integrating the rainfall information in upstream catchments, the waterway monitoring systems of middle/downstream and the potential flood simulation and tidal level prediction model of downstream.
4. To better understand and deal with problems such as land-subsidence caused by over pumping of groundwater and sea water intrusion as well as flood caused by the depreciation of drainage systems along the coast, it is a good way to construct the optimal management system by exploiting the modern technologies like Cyber-Physic System and IOT.
5. In addition to the interdisciplinary collaborations of hydrology, hydraulics, irrigation, drainage and sea tides, waves, current and storm surge techniques, the WG will promote the advanced management of irrigation, drainage, flood control and groundwater by combing the latest technologies of ICT, IOT, CPS and data techniques.
6. To achieve the goal of promoting sustainable development of tidal areas, the WG has updated the mandate for 2016-2022 as below:
 - (a) To understand the existing and potential challenges and opportunities of tidal areas for now and the future by figuring out underlying issues;
 - (b) To raise awareness of the increasing risk on tidal areas due to global climate change and stimulate interdisciplinary discussions on impacts, mitigation, and adaptation
 - (c) To enhance survey, design techniques, and monitoring and management programs for the irrigation and drainage facilities, and apply to collect information about the tidal area environment around the world;
 - (d) To identify sustainable development and management options in tidal areas, and find a balance between the conservation and development of tidal areas with acknowledgement of ecosystem services;
 - (e) To join the international dialogues and organize international conferences and short courses to promote interdisciplinary and participatory land and water planning and management in tidal areas;
 - (f) To collaborate with other related working groups actively, and to exchange relevant experiences amongst NCs and support for developing, and least developed countries.



**Minutes of the 1st Meeting of the
WORKING GROUP ON ENVIRONMENT (WG-ENV)**

10 November 2016, 09.00-10.30 hours (Session I)
10 November 2016, 11.00-12.30 hours (Session II)
Chiang Mai, Thailand

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2015

Extended the completion of the Mandate: 2021

Mandate: (a) To provide guidance to policy makers, planners, designers, and managers in the irrigation and drainage sector on the following environmental aspects of irrigation and drainage systems: (i) physical, (ii) chemical, (iii) ecological, (iv) socio-economic, and (v) cultural; (b) To address concerns to the effects on local, regional and global common goods, such as climate, biodiversity and human health; (c) To work towards the management of a sustainable environment, through adapted practices, adequate policies and institutions, maximizing positive and minimizing adverse effects of irrigation and drainage systems.

Members Present: (1) Dr. Sylvain Perret, Chairman (France); (2) Prof. N. Hatcho, Vice Chairman (Japan); (3) Dr. Choi, Joong-Dae (Korea, Rep. of); (4) Dr. Fuqiang Tian (China); (5) Vice President Prof. dr. (Ms.) Charlotte de Fraiture (Netherlands)

Observers: (i) Vice President Hon. Dr. Gerhard Backeberg (South Africa); (ii) Dr. Ismail Widadi (Indonesia); (iii) Ms. M.J. Gabriel (South Africa); (iv) Dr. Tsugihiko Watanabe (Japan); (v) Dr. Naoko Koshiyama (Japan); (vi) Mr. Bernard Vincent (France); (vii) Dr. Andor Szalai (Hungary); (viii) Dr. Natha Hungspreug (Thailand); (ix) Orranuch Kunthiyajai (Thailand); (x) Mr. Chu-Ming, Chang (Chinese Taipei); (xi) Mr. Chuang, Tsung-Lin (Chinese Taipei); (xii) Mr. Yean Yuan, Chen (Chinese Taipei); (xiii) Dr. Dominique Rollin (France); (xiv) Ir. Mohd Azmi Ismail (Malaysia); (xv) Prof. Yurii Mazhaiskii (Russia); (xvi) Dr. Kaluvai Yella Reddy (India).

Website: http://www.icid.org/wg_env_new.html

WG-ENV Minutes Item 1: Action taken report by Chair

1. At the onset, the Chair welcomed all the members and reminded them of the past happenings in WG-ENV i.e. extension of tenure from 2008-2014 to 2015, preparation of a scoping document with a new mandate and work plan, validation of new tenure 2016-2021. Consequently, this meeting was the 1st meeting with the new mandate and fresh tenure.

2. Chair informed the members on the different activities that were carried out in 2016: (i) An online WebEx meeting for WG-ENV was organized on 25 May 2016; (ii) Organization of a Side Event (SE) during WIF2 on "Environmental performances of paddy rice systems in the context of CC" (SE13); Active participation in Side Event on "Climate Change impact and adaptation in agriculture" (SE11); (iii) Preparation of a two-page brief write-up based on workshop in 2015 for ICID News; Preparation of a paper for I&D Journal on "Ecosystem services in irrigation systems" (to be submitted in early 2017); A training session for ICID YPs on "*The environmental impact analysis of irrigation systems: using LCA*", 10 November 2016 at Chiang Mai (Chair as trainer) etc.

3. Chair also mentioned remaining activities due in 2017: (i) Updating WG-ENV website (mandate, work plan) with support from ICID CO Dissemination of recent research papers, possibly through website; (ii) Contributing to ICID vision / action plan 2030 (refer agenda item 2); (iii) Circulation of final workplan / WG scoping document among members; and (iv) A declaration on soil & water salinization, jointly with WG-SDG (now WG-SDRG).

4. Chair finally insisted on key directions for the successful compilation of the new mandate:

- (a) Active participation of all is required
- (a) Invited members to get ownership of the work plan (which is to be taken as a flexible guideline), and contribution thereafter
- (b) The three main topics emerging from the new mandate are - 1) ecosystem services and the multi-functionality of I&D systems, 2) the environmental impacts of I&D systems, and 3) the social and economic impacts of I&D systems.

5. Chair informed that two key issues ought to be addressed during the 1st meeting are: 1) updates in membership and the election of a new bureau (Chair, Co-Chair and Secretary), and 2) WG-ENV contributions to ICID's Action Plan 2030.

WG-ENV Minutes Item 2: ICID Action Plan 2030 – Future activities of the group (2016-2019)

6. Members reviewed the activities of the WG listed in the Action Plan 2030. The six goals were briefly presented with some initial ideas for actions and deliverables by the Chairman. Chair gave examples of possible actions such as webinars, training sessions, workshops, documents, reviews, policy briefs or position papers.

7. Members were requested to help further populate the Action Plan 2030 with relevant innovative ideas, both in line with WG-ENV mandate and ICID goals. Chair would circulate the Action Plan 2030 to all members requesting to comment and to populate the same using some new ideas.

8. Dr. M. J. Monem from Iran commented that such initiative may also be linked to the on-going program such as 'IRPID' (International Research Program for Irrigation and Drainage). Chair informed that IRPID is a sort of follow-up to erstwhile IPTRID, mostly led by National Committees of Iran and China. It aspires to develop sub-regional I&D nodes and to coordinate and link them up with research and capacity building activities with the aim of bridging the gap between researchers and practitioners. Chair indicated that he participated in the first e-meeting of AC-IRPID on 30 September 2016 and is still exploring as to what is expected from WG-ENV at this stage. The group is seeking guidance and clarifications on the matter from IRPID.

9. Dr. Choi (Korea) opined that it is not an easy task to fill the Action Plan 2030 given wide perspective of Environment as considered by WG-ENV. . Dr. Choi requested the Chair to provide some key words and ideas guiding members to populate the table. Chair acknowledged and informed that he will populate and circulate the table with such keywords and examples.

10. Chair proposed that a WebEx meeting may be organized once this table is ready, to facilitate discussion and inputs from members. This should happen in early 2017 such that it fosters ICID's plans efficiently.

WG-ENV Minutes Item 3: Report on WebEx meeting of the group, 25 May 2016

11. A WebEx meeting was organized on 25 May 2016 with the following issues:

- (a) Proposed the idea of organizing a Side Event (SE) during WIF2. The SE on "The environmental performances of paddy rice systems in the context of climate change" co-organized by WG-ENV, WG-CLIMATE, and French National Committee (AFEID) taking stock of on-going activities (LCA document etc.)
- (b) Reminded members to contribute to the Multilingual Technical Dictionary (MTD) of ICID - environment-related terms requires updating, definitions, translations etc.
- (c) Proposed a YP training session on LCA at Chiang Mai
- (d) Informed WG-ENV members that the whole bureau needs to be replaced in 2016; a call for candidates for Chair, Co-Chair, Secretary positions was again made; elections may take place during the Chiang Mai meeting

12. The WebEx meeting went well wherein about 6 WG members and Secretary General Avinash Tyagi participated. WG-ENV will definitely continue to use the WebEx facility and hopefully more members will join the meeting.

WG-ENV Minutes Item 4: Report on Side Event on "Environmental performances of paddy rice systems in the context of climate change", 8 November 2016, Chiang Mai

13. Dr. Sylvain Perret, Chairman; Prof Hatcho, Co-chair and Dr. Choi actively participated and organized the following two Side events;

- (a) Environmental performances of paddy rice systems in the context of climate change (SE-13)
- (b) Climate change impact and adaptation in agriculture (SE-11)

WG-ENV Minutes Item 5: Environmental aspects of irrigation and drainage projects: Management of a sustainable environment (maximizing positive and minimizing adverse effects of irrigation and drainage systems)

14. Dr Bernard Vincent, Chair of WG-SDRG provided some clarifications on the proposed joint declaration on soil and water salinization. This initiative aims at reviving awareness on salinization issues especially in arid irrigated environments. Given the importance of the subject, the WG-ENV proposed to organize a joint workshop with WG-SDRG on 'Soil and water salinization' as a result of irrigation and drainage practices during Mexico Meetings in 2017.

15. Dr De Fraiture (Netherlands) supported the idea of joint workshop and further insisted to strengthen the linkages with WG-CLIMATE, given the new mandate of WG-ENV. She stressed that certain issues are common to both the WGs, such as sequestration and storage of carbon. The point was well taken and agreed by members and the chair would initiate actions to liaise with WG-CLIMATE.

WG-ENV Minutes Item 6: Publications of the working group - LCA

16. The Chair informed that the following WG publications are being prepared - (i) Preparation of a paper on "Ecosystem services in irrigation systems" to be submitted in early 2017 to ICID Journal on Irrigation and Drainage based on workshop proceedings (2015) on ecosystem services; and (ii) Finalization of the LCA methodology and case study document to be published as an e-publication in 2017.

17. Chair will post recent publications of interest on the WG website, including (i) Ullah, A., Perret, S.R., Gheewala, S.H. and Soni, P. (2016) 'Eco-efficiency of cotton-cropping systems in Pakistan: an integrated approach of life cycle assessment and data envelopment analysis'. *Journal of Cleaner Production*, 134(2016; Part B): 623-632; (ii) Payen, S., Basset-Mens, C., Núñez, M., Follain, S., Grünberger, O., Marlet, S., Perret, S.R. and Roux, P. (2016) 'Salinization impacts in life cycle assessment: a review of challenges and options towards their consistent integration', *International Journal of Life Cycle Assessment*, 21(4): 577-594. The Chair further requested members to upload relevant documents for sharing and dissemination.

WG-ENV Minutes Item 7: Dissemination of the activities of the group - Website of working group

18. The Chair informed that the WG-ENV website was lagging far behind expectations, partly due to the resignation of the WG Secretary Dr Van der Laan (South Africa) who was earlier instrumental to the website management.

19. For sharing the documents/reports among the WG members, Dr De Fraiture (the Netherlands) wanted to know if a WG Dropbox could be created and shared. The Chair agreed to set up such Dropbox and inform the members on the access procedure. Other members were invited to be more active in sharing and posting the documents/reports of common interest through such Dropbox. .

WG-ENV Minutes Item 8: Updating Multilingual Technical Dictionary (MTD)

20. The updation of MTD was first initiated in 2014. However, due to week attendance of members in the WG meetings, it has been difficult to identify a dedicated person for the task. The Chair will however continue his efforts in identifying a suitable person. The Chairman proposed to have specific WebEx meeting on the subject and clarify all the doubts in the functionalities and technicalities of the MTD facility in cooperation with Central Office. Such meeting could also help identify 1-2 persons to take up the task for WG-ENV.

WG-ENV Minutes Item 9: Review of membership of the working group

WG-ENV Minutes Item 9.1: Election of Chairperson and Secretary of the WG

21. The current entire bureau (Chair, Co-Chair and Secretary) have been in place since 2010. They all wish to step down in view of the new mandate until 2021. Chair indicated that it is the right time for renewal. As a matter of fact, Secretary Michael Van der Laan (South Africa) has already resigned in October 2016. Co-Chair Prof N Hatcho (Japan) indicated that he was also willing to step down. The Chair Dr S. Perret (France) long indicated (since 2014) his willingness to step down gradually, due to professional pressure.

22. Dr De Fraiture (Netherlands, also ICID Vice President) indicated her willingness to be the Chair on the condition that she receives strong participatory and active support from the WG members and that the WG goes onto practical, meaningful directions, with relevant topics being discussed and addressed. Members accepted and supported her candidacy and conditions.

23. Further, Chair invited Dr Choi (Korea) and Dr Tian (China) to be the Co-chair and Secretary. Both expressed their appreciation for the work done and agreed with the need for renewal of the bureau but were not willing to take charge due to their retirement and/or other commitments. In view of scarce attendance of members (only three WG-ENV members) apart from the Chair and Co-chair, the Chair proposed the following setup:

- Dr Charlotte De Fraiture to be the new Chair of WG-ENV
- Prof Hatcho remains Co-Chair for the time being
- Dr Perret becomes the Secretary

24. Prof Hatcho and Dr Perret would step down during Mexico Meetings in 2017. In the meantime, they will support the newly elected Chair in her new position.

WG-ENV Minutes Item 9.2: Regular membership of the WG

25. The meeting was attended by five members only viz. Dr. Perret (France), Prof Hatcho (Japan), Prof Choi (Korea), Dr. De Fraiture (Netherlands), Dr. Tian (China), besides 17 observers. Ms Seija Virtanen (Finland) and Mr. V. C. Ballard (Australia) sent their apologies and contributed to the activities of the WG by e-mails. Dr. Tedeschi (Italy) and Dr. Van der Laan (South Africa) have since resigned. ICID CO may request respective NCs for new nominations.

26. New nominations viz. Mr. Ahmed Kamil Hassani (Iraq) as Young Professional, Mr. Usamah Hashim Witwit in place of Mr. Ahmed Mohammed Aziz (Iraq), Dr. (Ms.) Bai Jing (China) as Young Professional, H.K. Meena (India) and Eng. (Ms.) P.M. Jayadeera (Sri Lanka) have been received and provisionally accepted for one year. However, Dr Yuri Mazhayskiy (Russia) was present and his membership was accepted. Dr Yuri Mazhayskiy then briefly introduce himself to the group. Membership status is given in **Annex 5 (page 33)**.

27. ICID CO may encourage the provisional members to actively participate in the WebEx meetings and promote attendance.

WG-ENV Minutes Item 10: Young professional training during WIF2, November 2016, Chiang Mai

28. Chair invited members and observers for a 3 hour-training session on "*The environmental impact analysis of irrigation systems: using Life Cycle Analysis*" on 11 November 2016 for better understanding of life cycle approach and methodology, with case illustrations. The training session was since attended by 28 young professionals from around the world.

The meeting closed with thanks to the Chair.



**Minutes of the 31st Meeting of the
WORKING GROUP ON COMPREHENSIVE APPROACHES TO
FLOOD MANAGEMENT (WG-CAFM)**

10 November 2016, 09.00-10.30 hours (Session-I)
10 November 2016, 11.00-12.30 hours (Session-II)
Chiang Mai, Thailand

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 1999

Completion of the Mandate: 2016

Mandate: To identify and disseminate various structural and non-structural measures of flood management, and to study the social, political and economic aspects of flood mitigation measures, ecologically sound development, international cooperation, as well as people's participation in disaster preparedness. The objective is to help the planners, managers and designers setting up holistic, integrated and adaptive flood management schemes in view of uncertainties resulted from the climate and hydro systems changes.

Members Present: (1) Dr Karman Emami (Iran), Chairman; (2) Dr Takao Masumoto (Japan), Vice-Chairman represented by Dr Masayoshi Satoh; (3) Ir. Mohd Adnan Mohd Nor (Malaysia), Secretary; (4) Mr. Marcel Marchand (Netherlands); (5) Mr. Arthon Suttigarn (Thailand); (6) Mr. Maurice Roos (USA); and (7) Er. Harish Kumar Varma, Executive Director of ICID Central Office, New Delhi, India.

Observers: (i) Ir. Ouango Francois (Burkina Faso); (ii) Ir. Yean Yuan, Chen (Chinese Taipei); (iii) Dr. Gurbachan Singh (India); (iv) Dr. Momon Sodik (Indonesia); (v) Dr. Ismail Widadi (Indonesia); (vi) Ir. Sahar Norouzi (Iran); (vii) Ir. Ashyaf Makvandi (Iran); (viii) Dr. Mu Mu Than (Myanmar); (ix) Ir. Mohd Razali bin Mohd Nazri (Malaysia); (x) Ir. Mohd Anuar Musardar B. Yusoff (Malaysia); (xi) Ir. Mohd Azmi Ismail (Malaysia); (xii) Ir. Mukhlis Bin Zainal Abidin (Malaysia); (xiii) Ir. Adeyinka A Adenopo (Nigeria); (xiv) Ir. Waseem Nazir (Pakistan); (xv) Ir. Carlo Q Pimentel (Philippines); (xvi) Dr Sylvester Mpandeli (South Africa); (xvii) Mr. Chawakorn Reutragulpaibul (Thailand); (xviii) Ir. Kajamawon Nilklud (Thailand); (xvix) Ir. Bharadee Soontronrojna (Thailand); (xx) Ir. Roekrat Panomkwan (Thailand); and (xxi) Ir. David Varneck (UK).

Website: http://www.icid.org/wg_cafm.html

WG-CAFM Minutes Item 1: Action Taken Report by Chair

1. Dr. Kamran Emami, Chairman of the WG-CAFM presented the report on actions taken on the decisions made during the Montpellier (2015), France. Chair recapitulated on the mandate and objectives of the WG. Mr. Mohd Adnan Mohd Nor (Malaysia), Secretary of the WG expressed his opinion that the output of this WG should emphasise on adaptive flood management in the Agriculture rather than urban areas. Mr. Marcel Merchand (The Netherlands) agreed that the focus Agriculture Sector is in line with the focus area of ICID. The Chair explained the historical background of this WG that considered flood in total and that urban and agriculture floods are inter-linked. In any case the mandate can be revised and updated during the review by PCTA. During the Gwangju meeting (2014), the PCTA did not agree to the proposal of the WG to organize an International Workshop on 'Floods and Agriculture' during 67th IEC and 2nd WIF in November 2016 at Chiang Mai, Thailand and instead suggested that members of the WG to take active part in the organization of the sub-theme 2: Managing impacts of climatic extremes with focus on floods and droughts activities of the WIF2. In this context the WG-CAFM supported organization of activities under sub-theme 2.

WG-CAFM Minutes Item 2: ICID Action Plan 2030: Activities on Flood Management issues

2. The Chair presented the Action Plan 2030 of the WG prepared by him in consultation with ICID CO. The members after deliberation broadly agreed to the Action Plan 2030 of the WG and updated action plan is at **Annex**. However, the WG Chair requested the members of the WG to further review the action plan and forward their suggestions and additional activities of the Group, if any to him at the earliest.

WG-CAFM Minutes Item 3: Publication of the Working Group on Flood Risk Management

3. The Chair reported that since the last meeting held at Montpellier (2015), France draft of publication titled 'Adaptive Flood Risk Management' covering both structural and non-structural aspects of floods management has been prepared. In order to finalise the publication WG Chair requested the members to submit brief (two-page) case studies write-up from their countries by the end of December 2016. Mr. Marcel Merchand (The Netherlands), Mr Arthon Suttigarn (Thailand), Mr Maurice Roos (USA), Dr Masayoshi (Japan) on behalf of Dr Takao Matsumoto and Mr. Mohd Adnan Mohd Nor (Malaysia) agreed to contribute case studies for inclusion in the publication of the WG. In this context, the WG Chair gave a presentation on 'Adaptive Flood Risk Management'. Other members of the group were also urged to contribute their papers for inclusion in the publication of the WG.

WG-CAFM Minutes Item 4: Presentation on Floods (Country Case Studies)

4. WG Chair, Mr. Arthon Suttigarn (Thailand) and Mr. Marcel Merchand (The Netherlands), members of the WG-CAFM made presentations on “Flood Management in the Western Chao Phaya River Basin - a Case Study of the Bangbal Bangsai Drainage Canal” and “The Review of Design Standards for Flood Protection in the Brahmani-Baitrani river basins in India”, respectively. A video on the Moses Flood Management Project in Venice was also shown in the meeting.

WG-CAFM Minutes Item 5: Report of the Sub-theme 2 – Management of climatic extremes with focus on floods and droughts, November 2016, Chiang Mai

5. The Chair informed that the WG-CAFM took active part in WIF2 sub-theme 2 providing support for review of papers, managing few sessions and preparing background paper for sub-theme 2 as Member of the team for preparation of background paper. WG Chair also informed that few members of the WG-CAFM contributed and presented their papers during the event.

WG-CAFM Minutes Item 6: Updating Multilingual Technical Dictionary (MTD)

6. The WG could not be discuss this item in the meeting and agreed to discuss it during next meeting of the WG. WG Chair requested members to review the MTD terms related to mandate of the WG and provide their suggestions to him.

WG-CAFM Minutes Item 7: Dissemination of activities of WG – Website of the group

7. The Chair reminded the members of the WG to actively contribute information, papers, presentations made on topics related to scope of work of the WG to the ICID Central Office for uploading on the website of the Members were as well as requested to visit the WG Website in order to keep themselves up-to-date with new developments in the field of flood management encompassing both structural and non-structural approaches. In order to ensure regular contribution of the members, WG encouraged members to make full use of Web-Ex platform for virtual meetings in between face-to-face meeting during IEC.

WG-CAFM Minutes Item 8: Closure report and revised mandate of the WG

8. WG members discussed the issue of the closure of the WG. WG finalised the closure report of the WG and recommended the establishment of a new WG on ‘Adaptive Flood Management’. The PCTA endorsed the recommendation and suggested WG to prepare and finalise scoping document with new mandate.

9. As per procedure approved by the IEC for setting up of the new WGs, WG core group will prepare scoping document (SD) and circulate to its members for comments, if any and submit updated SD incorporating comments of the members to the ICID CO for circulation to all NCs to ascertain their interest in the activities of the WG and providing their suggestions/comments as well as for nominating members for the WG. The SD will be further discussed and finalized during the next meeting at Mexico City in 2017 for its approval by PCTA/IEC. The membership status is given in **Annex 5 (page 33)**.

WG-CAFM Minutes Item 9: Any other item**Webinar/ web-based seminar**

10. WG supported and considered suggestion of organizing webinars which will promote sharing of vast expertise available with ICID fraternity with Members of the NCs. However, no decision was taken and it was agreed that this issue will be reviewed during next meeting of the new WG at Mexico City 2017.



Annex [Appendix XIII, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: Dr. Kamran Emami (Iran), Dr. Takao Masumoto (Japan), Vice-Chairman; and Ir. Mohd Adnan bin Mohd Nor (Malaysia), Secretary

Date: 10 November 2016

		Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 2: Be a catalyst for change in policies and practices	2.1 Publication of the WG on Adaptive Flood Risk Management	Report	Finalisation and publication of report				
	2.2 Develop Guidelines on Flood Risk Management strategies	Guidelines		Release first draft guidelines	Release of the finalised guidelines		Updating of the guidelines
	2.3 Case Studies on flood mitigation measures	Report		Finalise and publish first set of case studies		Finalise and publish second set of case studies	
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Organise internal / international Workshop	Proceedings of the workshop	Invite member countries and IOs like WMO, ICOLD, IAHR, APFM etc (discussion in WG meeting)	Workshop	Workshop	Workshop	
Goal 5: Encourage research and support development of tools to extend innovation into field practices	WG Activity 5.1 Promote Value Engineering as a tool for enhancing creativity and innovation		Gather case studies of application VE in flood management project	Gather case studies of application VE in flood management project	Prepare a report on the case studies of application VE in flood management project		
Goal 6: Facilitate capacity development	WG Activity 6.1						
	To launch e-Discussion on Flood Risk Management	Outcome	e-Discussion on Flood Risk Management (discussion in the WG meeting)	To invite member countries/ IOs for e-Discussion on Flood Risk Management	Organise a Side Event in WIF3		



**Minutes of the 1st Meeting of the
WORKING GROUP ON CLIMATE CHANGE AND
AGRICULTURAL WATER MANAGEMENT (WG-CLIMATE)**

10 November 2016, 11.00-12.30 hours (Session I)
10 November 2016, 13.30-15.00 hours (Session II)
Chiang Mai, Thailand

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2015

Completion of the Mandate: 2021

Mandate: (a) To share the information about prediction of the global and regional climate change and climate variability; (b) To explore and analyze the implications of climate change and climate variability for agricultural water management including irrigation, drainage, and flood control; (c) To promote archiving useful information and case studies on climate change for practical use in improved impact assessment and adaptation development; (d) To enhance discussion on climate change and water management at national and regional scales among the stakeholders including academicians, practitioners, decision makers, media as well as farmers and water users in a region; and (e) To join the international dialogue on Climate change and water management.

Members Present: (1) Dr. Tsugihiko Watanabe, Chairman (Japan); (2) Dr. Ray Shyan Wu, Vice Chairman (Chinese Taipei); (3) Dr. Tian Fuqiang, Secretary (China); (4) Mr. Mika Turunen (Finland); (5) Dr. P. Soman (JISL, India); (6) Prof. Dr. Choi, Jin-Yong (Korea, Rep. of); (7) Mr. Michael Davidson (USA); (8) Dr. Nozar Ghahreman (Iran).

Observers: (1) Carmel Pollino (Australia); (2) Amit Parashar (Australia); (3) Chu-Ming, Chang (Chinese Taipei); (4) Tsung Linchuang (Chinese Taipei); (5) Yung-Ho Lee (Chinese Taipei); (6) Kun Chuan Chang (Chinese Taipei); (7) Mu-Hsu Chuo (Chinese Taipei); (8) Chen Yean Yuan (Chinese Taipei); (9) Lin Keng Hsin (Chinese Taipei); (10) Chain-Yung Chu (Chinese Taipei); (11) Chen, Jaw-Cheng (Chinese Taipei); (12) Chien Wen Li (Chinese Taipei); (13) Yean-Yuan, Chen (Chinese Taipei); (14) Lin-Chi, Chih (Chinese Taipei); (15) Ying-Chien Lo (Chinese Taipei); (17) Hesham Mostafi Aly (Egypt); (17) Dr. Sandor Szalai (Hungary); (18) Ms. Jyotsana Chuchra (India); (19) Dr. Gurbachan Singh (India); (20) Dr. Ismail Widadi (Indonesia); (21) Gatot Tegeh (Indonesia); (22) Seti Yortono (Indonesia); (23) Yuli Sri Wilanti (Indonesia); (24) Naoko Koshiyama (Japan); (25) Kazunori Minamikawa (Japan); (26) Gun Heo (Korea, Rep. of); (27) Seung Yeon Jung (Korea, Rep. of); (28) Yong-Hoon Shin (Korea, Rep. of); (29) Sung-Hack Lee (Korea, Rep. of); (30) Jehong Bany (Korea, Rep. of); (31) Pureun Yoon (Korea, Rep. of); (32) Buyeong Oh (Korea, Rep. of); (33) Ir. Mohd Anuar Musardar Yusuff (Malaysia); (34) Mohd Azmi Ismail (Malaysia); (35) Ir. Mat Hussin Ghani (Malaysia); (36) Mr. Suman Sijapati (Nepal); (37) Dr. S. Mpandeli (South Africa); (38) G.M.R.A. Perera (Sri Lanka); (39) N.G.R. Ariyaratue (Sri Lanka); (40) Dr. Arthon Suttigarn (Thailand); (41) Ir. Maurice Roos (USA).

Website: <http://wg-climate.icidonline.org/>

WG-CLIMATE Minutes Item 1: Action taken report by Chair

1. The Chair apprised members on the actions taken according to the decisions of the working group ("WG" hereafter) held at Montpellier. The Chair reported that the WG revitalized its activities with newly defined mandates, based on the approval of the WG, re-constitution by the IEC, accelerating e-mail communication and introducing the video conference. The major actions taken includes:

- (a) Drafted the climate-related terms for the ICID-MTD under the leadership of Dr. Waleed Hassan
- (b) Prepared the draft Action Plan 2030 of the WG-CLIMATE
- (c) Reviewed the membership of the newly nominated persons
- (d) Hold the WebEx meeting of the Working Group, and
- (e) Supported the WIF2 Sub-theme 2 with collaborated works for drafting the Background Paper and reviewing the papers submitted.

WG-CLIMATE Minutes Item 2: ICID Action Plan 2030 – Activities on climate change and agricultural water management

2. In August 2016, the Chair prepared the draft action plan of the group in consultation with the Vice Chair and Secretary and circulated it to all members with a request to provide their feedback/ comments, and in WG WebEx meeting in October 2016, participants discussed and some revisions were done. During the meeting, after intensive

discussions, finally the WG members agreed with the present version of action plan with some minor modifications (see **Annex**). Some new ideas and activities to be involved in the future were also confirmed, which includes:

- (a) to build more collaborations with other working groups such as WG-ENV and WG-DROUGHT,
- (b) to incorporate water-food-energy nexus idea into current Action Plan 2030 of the WG, and
- (c) to consider the available resources including labor and financial sources when the action plan is finalized.

WG-CLIMATE Minutes Item 3: Global Framework for Climate Services

3. It was recalled that WMO and ICID signed a MoU in 2013 with a view to enhance WMO's ability to make use of outreach, capabilities and expertise of ICID in the areas of flood/ drought/ irrigation management by the irrigation and drainage community around the world as well as to provide opportunity to ICID members to get benefitted from the expertise, experience and capabilities of WMO. Due to non-attendance of representative of WMO, the WG could not discuss the on-going WMO's actions for the Global Framework however, the WG recognized the importance of the collaboration with WMO and other relevant international organizations as well.

WG-CLIMATE Minutes Item 4: Dissemination of activities of WG – Website of the group

4. After the Montpellier meeting held in 2015, group photos and materials were uploaded by the WG on its website at <<http://wg-climate.icidonline.org/>>. Members were requested to provide additional materials such as documents, reports, articles as well as photos for uploading on the website. In June 2016, Dr. Fuqiang Tian provided power point presentations and photos which were uploaded on the group's website.

5. The WG Chair requested new members to submit additional material for uploading on the WG website for wider dissemination to the WG Secretary (Dr. Fuqiang Tian) and the ICID Central Office. The WG Secretary will prepare a brief CV template and send it to the members by email so that the members' CV can be uploaded on the website, once received.

WG-CLIMATE Minutes Item 5: Updating Multilingual Technical Dictionary (MTD)

6. At the Montpellier meeting, the WG set up a task team to prepare the chapter on climate change in the MTD and the group nominated Dr. Waleed Hassan M. Abou El Hassan (Egypt) as the head of the team. In June 2016, Dr. Waleed Hassan contacted and requested all members to review and update the terms/ definitions, etc. in the MTD, related to scope of the WG. Similarly, the Chair also requested all members to actively contribute in updating the MTD. In response, Mr. Michael Davidson (USA), Dr. Fuqiang Tian (China), Prof. Ray Shyan Wu (Chinese Taipei), Mr. Mika Turunen (Finland), and Dr. Nozar Ghahreman (Iran) contributed in drafting the climate change chapter of the MTD.

7. The Chair introduced the progress of drafting of MTD on behalf of the team leader Dr. Waleed Hassan and appreciated his great contribution. The Chair overviewed the latest version of 6 November 2016, which includes 7 parts, i.e., adaptation and mitigation (11 items), climate (20 terms), meteorology (21 terms), international framework (16 terms), climate change category (16 terms), extreme events (16 terms), and others (28 terms). In total, there were 127 terms in the current version of climate change chapters. The draft is to be edited selecting the terms and reforming the style. Finalized chapter will be sent to ICID CO for inclusion in the MTD.

WG-CLIMATE Minutes Item 6: Report of the Sub-theme 2 – Management of climatic extremes with focus on floods and droughts, November 2016, Chiang Mai

8. The Chair overviewed briefly the report on the Sub-Theme 2 “Management of climatic extremes with focus on floods and droughts” of the 2nd World Irrigation Forum (WIF2). The Chair appreciated the great contribution of the WG members to the WIF2.

WG-CLIMATE Minutes Item 7: Review of membership of the working group

9. The WG reviewed the membership of the group which includes seven new nominations. Membership status is given in **Annex 5 (page 33)**. Since all the new nominees did not show-up/ participate in the meeting, their memberships were approved as provisional members as indicated below.

S. No.	Members	Country	Accepted/ Provisionally admitted
(1)	Eng. (Ms.) Talatha Janaki Meegstenna	Sri Lanka	Provisionally admitted

(2)	Mr. Javeed Iqbal Bokhary	Pakistan	Provisionally admitted
(3)	Mr. Sanjay Kumar Singh	India	Provisionally admitted
(4)	Dr. (Ms.) Fransisca Mulyantari	Indonesia	Provisionally admitted
(5)	Mr. Atin Kumar Tyagi – Direct Member, JISL in place of Dr. Santosh Deshmukh	India	Provisionally admitted
(6)	Mr. Hatem Hameed Hussein	Iraq	Provisionally admitted
(7)	Mr. Jafer Kathom Alwan Alamiryi (Young Professional)	Iraq	Provisionally admitted

WG-CLIMATE Minutes Item 8: Workshop on management of the climate change: post 2015 Paris

10. The WG organized the workshop on “Agricultural Water Management under the Changing Climate” wherein about 40 participants participated. Four researches on climate change impacts and water management practice for mitigating the climate change were presented followed by fruitful discussion. The chair stated that the similar workshop may be organized in the working group meeting in Mexico City in 2017. Four presentations made during the meeting were:

- (a) Dr. Sucharit Koontanakulvong, Chulalongkorn University, Thailand: “Impacts of Extreme Flood and Drought on Irrigation and Drainage and Their Adaptation Strategy in Thailand”
- (b) Dr. Kazunori Minamikawa, Institute for Agro-Environmental Sciences, NARO, Japan: “Japanese Farmers’ Economic Incentive to Implement Prolonging of Midseason Drainage for Reducing CH4 Emission from Irrigated Rice Paddies”
- (c) Dr. Nozar Ghahreman, University of Tehran, Iran: “Possible Effects of Climate Change on Agricultural Sector in Iran under RCP Scenarios”
- (d) Dr. Fuqiang Tian, Tsinghua University, China (Secretary of WG-CLIMATE): “Impacts of Climate Change on the Hydrological Processes in the Mekong River”

WG-CLIMATE Minutes Item 9: Report of the side event on ‘Environmental performances of paddy rice systems in the context of climate change: approaches and case studies – Towards climate-smart and sustainable paddy rice systems’, November 2016, Chiang Mai

11. WG Chair informed that the Side Event 13 was merged with the Side Event 17 “Appropriate Practices for Rice Cultivation” and hence, the WG-CLIMATE was not directly involved in organizing it. The side event was mainly organized by INWEPF and THAI-IMWEPF, as well as AFEID, and discussed different topics on current issues in the paddy cultivation and irrigation. WG Chair informed that he recommended following speakers for the side event: Dr. Kazuyuki MINAKAWA, Institute for Agro-Environmental Sciences, NARO, Japan; Prof. Attachai Jintrawet of Chiang Mai University as a Thai researcher studying climate change related topic in the field of paddy cultivation.

WG-CLIMATE Minutes Item 10: Any other business

Webinar/ web-based seminar

12. WG supported the idea of organizing webinars which will promote sharing of vast expertise available with ICID fraternity with Members of the NCs and requested the ICID central office to organize the Webinar and the WebEx Meeting. The WG proposed the following topics and resource persons to develop and deliver webinars (the titles are provisional):

- (a) Assessment of the drought risk map in Taiwan (Prof. Wu),
- (b) Link climate change prediction with hydrological model to address fluxes in a watershed (Prof. Wu),
- (c) Climate resilience in the context of irrigation services (Dr. Jobbins),
- (d) Application of the geospatial satellite data and hydrological models for regional predictions and adaptation for the climate change impacts (Mr. Mika),
- (e) Methods to assess the vulnerabilities of agricultural systems in different scales (regional vs. local) (Mr. Mika), and
- (f) Challenges and opportunities of big data in adaptation (Mr. Mika)



Annex [Appendix XIV, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WG-CLIMATE

Name of the Chairman and members filling this questionnaire: Tsugihiko Watanabe (Chair), Ray-Shyan Wu (Vice-chair), and Fuqiang Tian (Secretary)

Date: November 10, 2016

		Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 1: Enable higher crop productivity with less water and energy	1.1 Develop Guideline for Water Management Practices under Changing Climate	Guidelines	General policy and table of contents are decided	First draft of the core parts	Release the First Draft Guidelines in WIF3		Release the Final Draft Guidelines
	1.2 Prepare Position Paper on Smart Water Management for Mitigating Climate Change	A Position Paper of ICID	2nd Workshop on Post Paris 2015	3rd Workshop on Post Paris 2015	Discuss in a Side Event and Release the Draft in WIF3		
Goal 2: Be a catalyst for change in policies and practices	2.1 Organize Introduction of the Cases to be Applied to Other Regions	Compilation of Cases	2 Case Studies in humid region (introduction in WG Meeting)	2 Case Studies in arid/semi-arid region (introduction in WG Meeting)	2 Case Studies on unique examples (introduction in WG Meeting)	Extra Case Studies and comparison of the cases (introduction in WG Meeting)	Integration to conclude in general
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Organize Workshop, Seminar and Symposium	A Position Paper on Adaptation to Climate Change	Communication with International Organizations	Communication with International Organizations	Release the First Draft Paper in WIF3		Release the Final Draft
Goal 4: Enable cross disciplinary and inter-sectoral engagement	4.1 Develop Integrated Assessment of Climate Change Impacts	Brief Guidelines with Compilation of Case Studies	2 Case Studies with focus on technical background and uncertainty (introduction in WG Meeting)	2 Case Studies with previous year's focus plus economic and social aspects (introduction in WG Meeting)	2 Case Studies with previous year's focus plus financial and institutional arrangement (introduction in WG Meeting) and Introduction of state-of-the-art methodologies and their outcomes in WIF3	2 Case Studies with previous year's focus plus interest groups (introduction in WG Meeting)	Release the Brochure



**Minutes of the 7th Meeting of the
WORKING GROUP ON WATER FOR BIO-ENERGY AND FOOD (WG-BIO-ENERGY)**

8 November 2016: 09:00-11:00 hours

Chiang Mai, Thailand

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2010

Completion of the Mandate: 2016

Mandate: Evolve “ICID’s position on Water for Bio-Energy and Food”.

Members Present: (1) Dr. Fuqiang Tian (China); (2) VPH Laurie C. Tollefson (Canada); (3) Mr. Sanjay Belsare (India); (4) Mr. Mortaza Yazdkhasti (Iran); and (5) Er. Harish K. Varma, Executive Director represented Er. Avinash C. Tyagi, Secretary General, ICID Central Office, New Delhi, India.

Observers: (i) Engr. Ceferino C. Sta. Ana (Philippines); (ii) Mr. Ouango Dayende Frncois (Burkina Faso); (iii) Mr. Noraogo Jean Bernard Dambre (Burkina Faso); (iv) Ir. Samai Jai-In (Thailand); (v) Ir. Xu Feng (China); (vi) Ir. Lin Mo (China); (vii) Ir. Du Lijuan (China); (viii) Ir. Peng Zhigong (China); (ix) Ir. Wang Lei (China); (x) Ir. Robiyanto H. Susanto (Indonesia); (xi) Ir. Mojtaba Pourmoghadam (Iran); (xii) Mr. Anuj Kanwal (India); and (xiii) Dr. Salih Hamad Hamid (Sudan).

Website: http://www.icid.org/tf_bio_energy.html

WG-BIO-ENERGY Minutes Item 1: Action Taken Report by Chair

1. Dr. Fuqiang Tian (China), Chairman of the WG presented the report and briefed members of the actions taken on the decisions made during the last meeting held in Montpellier (2015), France.

WG-BIO-ENERGY Minutes Item 2: ICID Action Plan 2030: Activities on Bio-Energy

2. The Chairman of the WG presented and discussed the draft Action Plan 2030 of the WG. Members were of the view that Goal # 2 “Be a catalyst for change in policies and practices” and # 3 “Facilitate exchange of information, knowledge and technology” are relevant for the activities of the WG. After deliberation the WG approved the draft plan with the addition of training activities under Goal 6 “Facilitate capacity development”, updated action plan is at **Annex**.

WG-BIO-ENERGY Minutes Item 3: Publications of the Working Group

3. The WG decided to update an e-publication of the Technical Report titled ‘Water for Bio-Energy’ based on the new mandate, which has been listed as the **Activity 2.2** in Action Plan 2030.

WG-BIO-ENERGY Minutes Item 4: Updating Multilingual Technical Dictionary (MTD)

4. The WG decided to appoint Mr. Mojtaba Pourmoghadam from Iran (expert in bio-energy), who attended the meeting of the WG as an Observer, to lead MTD updating work. It was also agreed that Mr. Mortaza Yazdkhasti (Iran) who is an active member of the Group will assist Mr. Mojtaba Pourmoghadam in activities related to updating MTD.

WG-BIO-ENERGY Minutes Item 5: Closure report and revised mandate of the WG

5. The WG was established as a task force to Evolve “ICID’s position on Water for Bio-Energy and Food” in 2010 and it finished its work in 2015. As per decision during Montpellier meeting, WG Chair presented the revised ‘Scoping Document’ for a new Working Group on ‘Water for Bio-Fuel and Food’ for discussion and finalization. The WG agreed that the objective of the working group will be to stimulate discussion and raise awareness on water and food security issues associated with biofuel. The focus will be to enhance the understanding of the nexus among water-food-energy, to explore and analyse the implications of existing and new biofuel technologies on water resources availability, food production, and rural development, and to enhance the discussions on appropriate promotion of policies for biofuel production to balance food and energy, urban and rural, carbon and economy. Accordingly the Group after discussion recommended the following mandate, which was approved by PCTA/IEC [**Annex R2.2 (Page 20)**].

Mandate

To collect, analyze, and disseminate information on new developments and to formulate recommendations with respect to:

- (a) the assessment, monitoring and predictions of impacts of biofuel production and usage policies on water-food-energy nexus and especially agriculture water management,
- (b) the national policies for biofuel and its consideration for water-food-energy nexus and especially agricultural water management in different countries,
- (c) the strategies which agriculture and irrigation authorities can adopt to support biofuel promotion policies of their government,
- (d) the international dialogue on biofuel and agricultural water management between regions and countries.

6. The WG Chair also presented closure report of the WG which was approved after discussion.

WG-BIO-ENERGY Minutes Item 6: Dissemination of activities of WG - Website of the Group

7. The Group introduced the function of the website of the WG <http://www.icid.org/tf_bio_energy.html> to the members. The WG Chair requested members to provide information, papers, presentation made on topics related to scope of work of the WG to the ICID Central Office for uploading on the web site of the WG.

WG-BIO-ENERGY Minutes Item 7: Presentation of new advance on bio-energy

8. The WG Chair invited Dr. Samai Jai-In, Director General of Thonburi Naval Dockyard, Royal Thai Navy to give a presentation on new advance on bio-energy. The title of presentation was "Biofuel Programs in Thailand: A good model for Agrarian Transitions in ASEAN." The WG members and participants have shown their interest in a small-but-smart solution for agrarian transitions for small holder farmers in developing countries.

WG-BIO-ENERGY Minutes Item 8: Review of membership of the working group

9. Mr. Mortaza Yazdkhasti (Iran), provisional member, was accepted as regular member as he participated in the meeting. Out of new nominations Dr. Sali Hamad Hamid (Sudan) was accepted as a regular member while Mr. Rajiv Kumar (India) were accepted as a provisional member as he did not participate in the meeting. Mrs. Ruaa Khalid Hamdan from Iraq was accepted as Provisional Member of the WG. The membership status is given in **Annex 5 (page 33)**.

10. Mr. Mortaza Yazdkhasti (Iran) suggested to replace him with Mr. Mojtaba Pourmoghadam (Iran), who participated the working group meeting as an Observer. The WG agreed to make these changes in case the Iranian National Committee of ICID (IRNCID) recommend for replacement.

WG-BIO-ENERGY Minutes Item 9: Any other business

11. The WG decided to hold some virtual video meetings in between two IEC meetings. The working group also decided to appoint a Secretary since it has 8 members now (including provisional members) in next virtual meeting of the WG.

Webinar/ web-based seminar

12. WG Chair requested members to suggest few topics along with name of the relevant experts who could be contacted to develop webinars for consideration of the ICID CO. WG decided to discuss this matter further during web-ex virtual meeting.



Annex [Appendix XV, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: Dr. Fuqiang Tian (China) and members filled-in the questionnaire

Dated: 11 November 2016

		Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 1: Enable higher crop productivity with less water and energy			Milestone 1	Milestone 2	Milestone 3	Milestone 4	Milestone 5
Goal 2: Be a catalyst for change in policies and practices	2.1 Position paper or updated technique paper	Position paper			Release at IEC		
	2.2 Technical report of the WG on bio-energy	Technical report on Water for Bio-energy	Finalisation and dissemination of technical report				
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Organize workshops, seminar, or symposium	Compilation of proceedings	Inputs to Congress		International workshop together with climate change WG		
	3.2 Review of policies and publications related to mandate of the WG	Condensed overview of national policies and relevant publications on the topic		Release of overview of first set of policies and publications		Release of overview of first set of policies and publications	
Goal 4: Enable cross disciplinary and inter-sectoral engagement							
Goal 5: Encourage research and support development of tools to extend innovation into field practices							
Goal 6: Facilitate capacity development	WG Activity 6.1	Training workshop			Training workshop		



**Minutes of the 9th Meeting of the
WORKING GROUP ON WATER AND CROPS (WG-WATER & CROP)**

10 November 2016, 13.30-15:00 hours (Session-I)

10 November 2016, 15.30-17.00 hours (Session-II)

Chiang Mai, Thailand

Strategy Theme: On-Farm

Presented by the Chairman

Year of Establishment: 2007

Completion of the Mandate: 2019

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 bio-fuel production, to develop techniques for rainfall harvesting, to promote the multifunctional use of water in paddy (rice) cultivation, to investigate the adaptation of agriculture to climate change and to promote low input agriculture.

Members Present: (1) VPH Ragab Ragab (UK); (2) VPH Laurie C. Tollefson (Canada); (3) Dr. K. Yella Reddy (India); (4) Dr. Marco Arcieri (Italy); (5) Ir. Adang Saf Ahmad (Indonesia); and (6) Dr. P. Soman (India), JIL.

Observers: (i) Dr. Sandor Szalai (Hungary); (ii) Ir. Sukras (Indonesia); (iii) Dr. Ismail Widadi (Indonesia); (iv) Ir. Syaiful Mahdi (Indonesia); (v) Ir. Mohd Anuar Musardar (Indonesia); (vi) Ir. Momon Sodik (Indonesia); (vii) Ir. Yuli Sri Wilanti (Indonesia); and (viii) Ir. Nita Yulianti (Indonesia).

Website: <http://wg-crop.icidonline.org>

WG-W&C Minutes Item 1: Action Taken Report by Chair

1. The chair briefly presented the action taken report of the WG since its last meeting in Montpellier in 2015.
2. The Chair referred to the video-conferencing facilities being made available by the Central Office which enabled monitoring of the actions taken on the decision of the WG. The chair and members expressed that presently they were well connected through e-mails and using video-conferencing facilities has some difficulty due to the different time zones of the members countries. However, based on the requirement this facility may be used in future.

WG-W&C Minutes Item 2: ICID Action Plan 2030: Goal-wise Action Points

3. The chairman informed that the 66th International Executive Council (IEC) had approved the new Vision, Mission and six Organizational goals of ICID. He requested the members to identify actions to achieve the Organizational Goals in the area of mandate of the WG which would form part of ICID Action Plan for Vision 2030. The Working Group discussed in depth the 6 goals listed and prepared the activity plan which has given at **Annex**.
4. WG decided to 'Develop guidelines on efficient use of water in crop production'. The detailed information on the existing procedures and methods followed from different regions and countries will be obtained, synthesized, analysed and detailed guidelines prepared. The ICID Central Office will be requested to facilitate in obtaining country/region wise information.
5. The WG proposed to organize an International workshop/seminar on '*Improving the Water Use Efficiency within the Water-Energy-Food-Nexus*' at Saskatoon, Canada in 2018. The papers from the seminar would be published in a special issue of the journal.

WG-W&C Minutes Item 3: Multi-functionality of water use in paddy (Rice) cultivation

6. The chair informed that the WG decided to bring out a 'Technical Report' based on the work carried out so far which included reports on : (a) efficient use of water in crop production, (b) crop water models, (c) multifunctional water use in paddy, and (d) rainfall harvesting and energy crops. NCs of Philippines, China and Indonesia have contributed their papers for the 'Technical Report' during the Montpellier meeting in 2015. Further, Central Office requested the members/NCs from Korea, Thailand and Chinese Taipei to contribute their papers in the area of the 'Multi-functionality of water use in paddy (Rice) cultivation' in their countries enriching the 'Technical Report' of the working group.

WG-W&C Minutes Item 4: Publications of the Working Group**WG-W&C Minutes Item 4.1: Technical Report**

7. The chair informed that during the Montpellier meeting (2015), the WG discussed the reports by VPH Ragab Ragab (UK); Prof. Kim (Korea); Dr. Koji (Japan); and VPH Laurie C. Tollefson (Canada). However, report from Dr. K.Y. Reddy (India), Dr. Graziano Ghinassi (Italy) and Dr. Leon van Rensburg (South Africa) were awaited. Dr. Reddy (India) informed that the draft report on '*Efficient Use of Water in Crop Production*' was ready and he will submit it to the chairman shortly after making a few improvements. The chairman highlighted the importance of submission of the reports from other members who have been assigned the responsibility. It was also agreed that the report will be finalised in early 2017.

WG-W&C Minutes Item 4.2: Best papers for Special Issue of IRD

8. The WG had organized International Workshops: (1) "*Management of Water, Crops and Soils under Climate Change*" in 2013 at Mardin, Turkey and (2) '*Precision Irrigation for Sustainable Crop Production*' in 2015 at Montpellier, France. It was proposed to publish selected best papers in the Special Issue of IRD Journal.

9. The Chairman informed the members that French National Committee has taken responsibility of identifying the best papers from the Montpellier workshop for printing in the IRD journal.

WG-W&C Minutes Item 5: Report of the Sub-theme 1 - Key issues of irrigation and drainage in balancing water, food, energy and ecology of WIF2

10. The Chair informed that Sub-theme 1 of the Second World Irrigation Forum (WIF2) titled '*Key issues of irrigation and drainage in balancing water, food, energy and ecology*' was closely related with the mandate of the WG. VPH Ragab Ragab (UK), Chairman of the WG was member of the Work Team (WT) who prepared the Background Paper for Sub-theme 1 of WIF2 under the Chairmanship of Dr. Reza Ardakanian (UNU-FLORES). The Background Paper of Sub-theme 1 was available at <http://www.icid.org/wif2_bg_pap_st1.pdf>. Dr. Ragab was Co-chair of Parallel Session 1.5, whereas VPH Laurie Tollefson, Vice Chair of the WG was Rapporteur of Parallel Session 1.3 besides being a member of the 'International Review Committee' for WIF2. The WG appreciated their contributions.

WG-W&C Minutes Item 6: Updating Multilingual Technical Dictionary (MTD)

11. The Chair briefly described the process of updating the multilingual technical dictionary. The group discussed the issue and invited voluntary nomination from the members present to serve as nodal person for reviewing the terms related to the activities of the group. Dr P. Soman (India) volunteered to act as nodal person on behalf of the WG.

WG-W&C Minutes Item 7: Dissemination of activities of WG – Website of the group

12. The chair informed the members that as part of Water4Crops project 'SALTMED' online distant learning course had been developed. The details of the web-links had been shared within the website of WG-Water & Crops and WG-PQW. In order to share the experiences and communicate with each other, a forum has also been created at <www.saltmed.createaforum.com>.

13. The Chair requested members to share any important tools, manuals, technologies relevant to the working group activities for uploading on the ICID website for wider use. Dr Reddy informed the chair that the video on '*Ultra Sonic Sensors for efficient on-farm water management*' developed by WALAMTARI (India) under ClimaAdapt Project which was presented in the Side Event 6 of WIF2 '*Building Farm level capacities in irrigation water management to adapt to climate change*' would be made available to ICID for uploading on the website of the WG.

14. The Chair Dr Ragab and Dr Marco, member of the Working Group attended a workshop in Italy in October 2015 and made presentation on the topics relevant to the group activities and promoted ICID at the workshop.

15. Dr Laurie, Co-chair of the WG attended a conference in Cuba in April 2016 and made presentation on 'Water Use Efficiency'.

16. Dr K Y Reddy, the Secretary of WG along with the partners of 'ClimaAdapt Project' organized an 'International Conference on Climate Change, Water, Agriculture and Food Security' during 2-3 Nov 2016 at ICRISAT, Hyderabad, India. He has also organized a Side Event in WIF2 on '*Building Farm level capacities in irrigation water management to adapt to climate change*' in which both the Chairman and Co-Chairman of the WG participated and contributed towards the mandate of the WG.

WG-W&C Minutes Item 8: Review of the membership of the Working Group

17. The chair informed that new nominations of Dr. Nader Heydari (Iran) in place of Ms. Jaleh Vaziri and Dr. Wu Di (China) have been received from the Iranian National Committee on Irrigation and Drainage (IRNCID) and Chinese National Committee on Irrigation and Drainage (CNCID), respectively. The Chairman read out their brief bio data and recommended their membership for the WG. Their membership was unanimously accepted. Since the new nominees were not present during the meeting, the nominations were accepted as 'Provisional Member' for one year.

18. The Iraqi National Committee of ICID (IRQCID) has nominated Ir. Abbas Fadhel Mohammed and Ir. Shatha Salim Maged (*Young Professional*) for the membership of the group. Both nominees were admitted as 'Provisional Member' until the nominee attend the meetings or else contribute to the activities of the working group through e mail/video conference meeting. Membership status is given in **Annex 5 (page 33)**.

19. Dr. Allah Bakhsh (Pakistan), Provisional Member of the WG in 2015 contributed by e-mail and also submitted his paper on "*Tubewell run on Solar Energy and its use in Agriculture*" which had been accepted for oral presentation in the Side Event 10: "*Solar Energy in Irrigation and Drainage*" of WIF2. Though he was not present in the WG meeting, in view of his contributions, his membership is hereby regularized/continued.

20. On the basis of non-attendance, non-participation, no communication with ICID (ICID by-law 3.5) during the last 2 or more consecutive years, Chair recommended discontinuation of membership of Dr. Koji Inosako (Japan) and proposed to request the National Committee of Japan to nominate a new member in his place.

21. The Chair and members present expressed serious concern for non-presence of all four permanent members of the WG in the meeting. The Central office may take a note of it and take necessary action for removing/replacing them.

WG-W&C Minutes Item 9: Any other business

22. The members opined that there was an overlapping of work body activities with other Working Groups. The presence of 'Theme Leader' is necessary to overcome the issue of overlapping and streamline the activities.

23. The members opined to have Skype meetings to discuss about the WG activities and share the progress. All members agreed to share their Skype accounts to the Secretary of the WG for circulation among all.

Webinar

24. The members discussed the feasibility of organizing Webinar/ web-based seminars on web platform using video conferencing. It was proposed to organize one Webinar initially on any suitable topic. Dr K.Y. Reddy volunteered to organize one webinar on behalf of the work body.



Annex [Appendix XVI, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: VPH Dr. Ragab Ragab (UK); VPH Laurie C. Tollefson (Vice-Chairman) and Dr. K.Y. Reddy (Secretary)

Dated: 10 November 2016

		Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 1: Enable higher crop productivity with less water and energy			Milestone 1	Milestone 2	Milestone 3	Milestone 4	Milestone 5
	1.1 Develop guidelines on efficient use of water in crop production	Guidelines	Outline of guidelines - Introduction	Release the first draft guidelines	Finalise the draft guidelines	To publish it	
Goal 2: Be a catalyst for change in policies and practices	2.1 Technical Report	Report	Prepare the first draft report for discussion	Release the second draft report	Finalise the draft report	To publish it	
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 International workshop/ seminar on 'Improving Water Use Efficiency in the frame work of Water Energy Food Nexus'	Workshop Proceedings	Announcement of Workshop	Organizing Workshop in Canada	Publication of Papers in the Special Issue of the Journal		
Goal 4: Enable cross disciplinary and inter-sectoral engagement	4.1 Crop – Water – Energy Nexus	Technical report		Workshop		Workshop	
Goal 5: Encourage research and support development of tools to extend innovation into field practices	5.1 Support research and development of modelling tools	Development of suitable Models, Sensors, Tools for field use	Prepare action plan	Draft report on various developments	Consolidation and final report		
Goal 6: Facilitate capacity development	6.1 Crop Water Models Aqua Crop	Conduct Training Workshops	Training Workshops		Training Workshops		



**Minutes of the 21st Meeting of the
WORKING GROUP ON USE OF POOR QUALITY WATER FOR IRRIGATION (WG-PQW)**

9 November 2016, 13.30-15.00 hours (Session I)

9 November 2016, 15.30-17.00 hours (Session II)

Chiang Mai, Thailand

Strategy Theme: On-Farm

Presented by the Chair

Year of Establishment: 1995

Completion of the Mandate: 2016

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 Present: (1) Vice President Hon. Ragab Ragab (UK); (2) Vice President Ding Kunlun (China); (3) Dr. Takanori Nagano (Japan).

Observers: (i) President Saeed Nairizi (Iran); (ii) Vice President Bong Hoon Lee (Korea); (iii) Dr. Wenyong Wu (China); (iv) Prof. Zeinab Hussein Behairy (Egypt); (v) Ms. Coulon Caroline (France); (vi) Mr. Anuj Kanwal (India); (vii) Dr. Marco Arcieri (Italy); (viii) Mr. Waseem Nazir (Pakistan); (ix) Orranuch Kunthiyajai (Thailand); (x) Prof. Dr. Natha Hungspreng (Thailand); (xi) Mr. Thubelihle A. Thebe (Zimbabwe).

Website: <http://wg-pqw.icidonline.org/>

Note: VPH Dr. Ragab Ragab (UK) conducted the meeting in absence of Chair Dr. Samia El Guindy (Egypt)

WG-PQW Minutes Item 1: Action taken report by Chair

1. At the onset, VPH Ragab welcomed all the members and briefed them on the activities of the group viz. publications of the group, updating MTD, preparation of closure report and scoping document. Members were aware of the facilities for virtual meetings provided by the ICID Central Office. However, they continued their contact and exchange of information by email over the past year.

WG-PQW Minutes Item 2: ICID Action Plan 2030 – Activities for use of poor quality water for irrigation

2. The group discussed the action plan in line with the six Goals of the ICID vision. The WG found that all Goals apart from Goal 4 (Inter-sectoral engagement) were in line with the WG goals. However, filling up the table with details and specific milestones and deliverables required a good number of members to be present. However, the activities will cover presentations, reports, workshops, training, and revisiting current guidelines on the use of poor quality water for irrigation. More details were expected during the course of the year until Mexico meeting in 2017.

WG-PQW Minutes Item 3: Publications of the working group

3. In order to publish a Technical Paper of the WG, the group noted that only two papers had been received from Japan and Italy, while three more papers were yet to be received. The final report will be completed by the Chair once those missing papers are received. It was proposed to request the Central Office to follow-up with Dr. Biswas (Australia), Dr. Vincent (France) and Prof. Rensburg (South Africa), the concerned authors.

WG-PQW Minutes Item 4: Exchange of information, knowledge & networking - Website

4. The standing in Chair discussed and demonstrated the SALTMED, a distant learning course, now available on 'YouTube' and the forum web site www.saltmed.createaforum.com as well (see item 8 also).

WG-PQW Minutes Item 5: Updating Multilingual Technical Dictionary (MTD)

5. The group noted that ICID Central Office will bring out an updated online version of the Multilingual Technical Dictionary (MTD) and make it available to all through ICID website. To achieve this goal, the Chair proposed to undertake the review of the concerned terms (as per individual expertise) and suggest modifications and/or addition of new terms along with related pictures, links and/or videos related to respective term.

6. After due discussion in the meeting, Dr. Takanori Nagano (Japan) agreed to act as a focal point between the group and ICID task force on MTD to look into the part of MTD that was relevant to WG-PQW and suggest/ amend terminology in consultation with the WG members.

WG-PQW Minutes Item 6: Country presentations by members

7. During the meeting, Dr. Wenyong Wu (China) made a presentation on the use of brackish ground water for irrigation in China which was followed by a discussion. The Chair and members appreciated the presentation and proposed to upload the same on the WG website.

WG-PQW Minutes Item 7: Closure report and Scoping Document (mandate) of the new Working Group

8. In absence of the regular Chair, the group discussed and agreed that a scoping document be prepared and circulated among members before submission during Mexico meeting in 2017. Given the above and on-going process of WG publication, it was decided to request the PCTA for extension of tenure and defer the scoping document submission until next year, which was accepted in principle with the suggestion to develop the scoping document for new WG. The WG also discussed the changing of the name of the group to “Non-Conventional Water Resources” instead of “Poor Quality Water for Irrigation” in the scoping document to be prepared.

9. As per procedure approved by the IEC for setting up of the new WGs, a core group consisting of three-four members may be established (within the group) to prepare scoping document and circulate it to its members for comments, if any and submit the updated SD incorporating comments of the members to the ICID CO for circulation to all NCs well before the Agenda for the next meeting is prepared in order to ascertain their interest in the activities of the WG and their suggestions/ comments as well as for nominating members for the WG. The SD will be further discussed and finalized during the next meeting at Mexico City in 2017 for its approval by PCTA/IEC.

WG-PQW Minutes Item 8: Any other business

10. The WG discussed and welcomed Dr. Wenyong Wu (China) as a member in place of VP Ding Kunlun. To strengthen the membership, the WG asked Central Office to contact the NCs to provide two members each to this WG.

11. President Saeed Nairizi recalled that a Memorandum of Understanding (MoU) was signed between ICID and IWA for cooperation at NC level in Iran in September 2016. The members were encouraged to get engaged with this 5 years sponsored program on the use of wastewater in agriculture. Members were requested to contact Mr. A.A. Ghaneh, Vice Chair, IWA National Committee for Iran (asghaneh@yahoo.com)/ Mr. S.A. Assadollahi, Secretary General, IRNCID (irncid@gmail.com) for more information.

12. The WG agreed to revisit the guidelines of WHO and FAO on the wastewater use in agriculture as a long term activity once the number of members were sufficient to take up the task.

13. The WG was informed that in order to facilitate easy access to SALT MED course, ICID has created a set of links given below:

(a) Distant learning course	https://www.youtube.com/watch?v=JRMeUFzuBYU
(b) Chapters	https://www.youtube.com/watch?v=8NnpII MtSuE&list=PLZYmrBXSZmBk4w_eIIdbYegjaluPaisp_
(c) Individual Issues (8 Issues)	https://www.youtube.com/watch?v=8NnpII MtSuE
	https://www.youtube.com/watch?v=3xvntZfomdA
	https://www.youtube.com/watch?v=qVf_mB2Eh9k
	https://www.youtube.com/watch?v=CSDl6w3oE4Y
	https://www.youtube.com/watch?v=s9js_Bm gg6k
	https://www.youtube.com/watch?v=RVe4_Z742gl
	https://www.youtube.com/watch?v=Q7DZvSLjYhM
	https://www.youtube.com/watch?v=vcOGQDjPQso

14. Members may contact Dr. Ragab (rag@ceh.ac.uk) for more information.



**Minutes of the 1st Meeting of the
WORKING GROUP ON SUSTAINABLE ON-FARM IRRIGATION
SYSTEM DEVELOPMENT (WG-SON-FARM)**

10 November 2016, 13.30-15.00 hours (Session I) and 15.30-17.00 hours (Session II)
Chiang Mai, Thailand

Strategy Theme: On-Farm

Presented by the Chairman

Year of Establishment: 2015

Completion of the Mandate: 2021

Mandate: (a) On-farm irrigation structures and water distribution system networks are properly designed, installed, managed and maintained; (b) Soil moisture is monitored, technical and management measures for enhancing the water infiltration and retention capacities of soils are investigated and implemented; (c) Trade-offs among on-farm irrigation technologies, socio-economic and environmental benefits are optimized; (d) Innovative local institutional arrangements are developed and promoted for operation and maintenance; (e) Top-notch scientific and development relevant research is conducted and its results are translated into actionable recommendations.

Members Present: (1) Vice President Hon. Felix B. Reinders, Chairman (South Africa); (2) Vice President Hon. Prof. Peter Kovalenko, Vice Chairman (Ukraine); (3) Dr. A.K. Randev, Secretary (India); (4) Mr. Carl Walters (Australia); (5) Dr. Chen, Ching-Tien (Chinese Taipei); (6) Dr. Hossein Dehghanisani (Iran); (7) Dr. Graziano Ghinassi (Italy); (8) Dr. Akira Iwamoto (Japan); (9) Mr. Suman Sijapati (Nepal); (10) Mr. Bashu Dev Lohanee (Nepal).

Observers: (i) Naser Ahmed Faye (Afghanistan); (ii) Mohammad Asif (FAO-Afghanistan); (iii) Ass. Prof. Shams (Afghanistan); (iv) Mr. Stephen Mills (Australia); (v) Yean-Yuan, Chen (Chinese Taipei); (vi) Prof. Zeinab Hussein Behairy (Egypt); (vii) Mr. Anuj Kanwal (India); (viii) Dr. Ismail Widadi (Indonesia); (ix) Mr. Nagai Koji (Japan); (x) Prof. Chang Eon Park (Korea, Rep. of); (xi) Mr. Suresh Kumar Sharma (Nepal); (xii) Eng. G.M.R.A. Perera (Sri Lanka); (xiii) N.G.R. Ariyaratne (Sri Lanka); (xiv) Mr. Jan Potgieter (South Africa); (xv) Mr. Sitha Ketpratoom (Thailand); (xvi) Bilge Omar (Turkey); (xvii) Mr. Omer Faruk Akbulut (Turkey); (xviii) Eng. Thubelihle A. Thebe (Zimbabwe).

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

WG-SON-FARM Minutes Item 1: Action Taken Report by Chair

1. At the outset, Chair welcomed members and presented a short report on the actions taken on the decisions which were as follows – (a) The workplan of the WG-SON-FARM was accepted as a guiding principle upto 2021; (b) For the ICID Action Plan 2030, provisional actions and milestones were populated but need discussion; (c) Collection and collation of micro and sprinkler data continued; (d) Dissemination of the activities of the WG took place and an article was submitted for Newsletter; and (e) Presentations by the working group members was arranged and delivered on the meeting.

WG-SON-FARM Minutes Item 2: ICID Action Plan 2030 – Activities on sustainable on-farm irrigation

2. At the 66th International Executive Council (IEC), vide Resolution IEC-4/66, the new Vision, Mission and six Organizational Goals of ICID was approved. With that in hand, the WG developed an action plan during the meeting.

3. The group discussed and developed actions to be implemented by the WG during the Montpellier meeting in 2015, which was used as a basis by Central Office (CO) in consultation with WG Chair to prepare a draft activity plan of the group. The group discussed the draft action plan and finalized it (**Annex**) during the Chiang Mai meeting. As per the work plan prepared by the WG, it was proposed to prepare country papers, how-to-do thematic document and position papers on key issues as well as hosting workshops and Micro Irrigation Conferences. Members volunteered to undertake action to prepare deliverables as per finalized action plan. WG plans to organize an internal workshop during the WG meeting in 2017 in Mexico.

WG-SON-FARM Minutes Item 3: Collection and collation of micro and sprinkler data

4. A simplified version of the questionnaire “Survey of World-wide Usage of Sprinkler and Micro Irrigation” was circulated to all National Committees for collection of information in respect of sprinkler and micro irrigation. The WG discussed the possible ways to review the present questionnaire and the WG Chair was requested to review and make modifications, if any in the questionnaire and to provide the revised questionnaire to ICID Central Office for circulating it to all NCs by the end of December 2016.

5. The group noted that the Central Office had followed up with the National Committees to update the datasheets pertaining to micro and sprinkler area. In response, the updated data were received from the National Committees of Estonia, Iraq, Japan, and Spain. Members were requested to provide latest information in respect of their countries every year.

WG-SON-FARM Minutes Item 4: Proposals for 9th International Micro Irrigation Conference

6. At Montpellier meeting, International Executive Council (IEC) approved vide Resolution IEC-3/66, the proposal for renaming Micro Irrigation Symposium to Micro Irrigation Conference and also approved in-principle the proposal of the Indian National Committee on Surface Water (INCSW) for organizing the 9th International Micro Irrigation Conference (IMIC) in 2019.

7. During the meeting, Eng Anuj Kanwal from India presented the broad status and details of organization of the 9th International Micro Irrigation Conference (IMIC) in January 2019 at Aurangabad, India. After discussion on the theme and sub themes, it was agreed that these will be reviewed and revised by the WG Chair and circulated in December 2016 to WG members for finalization. The first announcement will go live in October 2017.

WG-SON-FARM Minutes Item 5: Publications of the working group

WG-SON-FARM Minutes Item 5.1: Article on “Improvement of the On-Farm Irrigation Systems Using Simple Water Control, Measuring and Application Devices”

8. The group discussed and agreed that the article on “Improvement of the On-Farm Irrigation Systems Using Simple Water Control Measuring and Application Devices” would be finalized and submitted before the end of December 2016 to ICID Central Office for its wider dissemination.

WG-SON-FARM Minutes Item 5.2: Paper on “Micro irrigation for smallholders and greenhouses”

9. The group discussed and decided that the report on “Micro irrigation for smallholders and greenhouses” provided by Prof. Yoshisuke Nakano (Japan) be edited and sent to ICID CO by the end of 2016. WG also suggested to communicate with the Prof Yoshisuke Nakano to provide some clearer pictures and diagrams for inclusion in the report.

10. Dr. Hossein Dehghanisani from Iran volunteered to prepare a paper on “Micro Irrigation under Saline Conditions” as part of the deliverables of Vision 2030 action plan.

WG-SON-FARM Minutes Item 6: Dissemination of activities of WG – Website of the group

11. The WG Chair requested members for their active participation in the activities of the WG and facilitate exchange of information, knowledge and experience, as well as networking in order to keep themselves up-to-date with new developments, methods and innovative on-farm management practices. During the meeting, members noted that an article titled “Cleaning of drippers with ultrasound” has been placed by VPH Reinders. WG Chair urged members to provide articles and information that can be posted on the Website.

WG-SON-FARM Minutes Item 7: Updating Multilingual Technical Dictionary (MTD)

12. WG discussed the matter and issues related to updating of MTD. During the meeting, the WG nominated Chair, Vice Chair and Secretary for the management and to review the terms related to the activities of the group. To achieve this goal, it was agreed that they would undertake to review the concerned terms depending on their domain of expertise and will suggest changes / modification and addition of new terms, if any along with contributing pictures, links and videos related to respective term. WG members were also requested to look at the terminology and to improve it wherever necessary by providing information to the WG Chair and ICID Central Office.

WG-SON-FARM Minutes Item 8: Presentation by the working group members

13. During the meeting, presentations were made by – (i) Mr. Carl Walters (Australia), an expert in the field of flood based irrigation systems, on the technologies that are in use in Australia, and (ii) VPH Felix Reinders (South Africa) on technology and smart approach to keep drip irrigation systems functional. WG plans to organize an internal workshop during the WG meeting in 2017 in Mexico.

WG-SON-FARM Minutes Item 9: Closure report of the working group

14. The group discussed and proposed that the closure report of the WG-ON-FARM will be finalized and forwarded to ICID CO by January 2017 by the WG Chair.

WG-SON-FARM Minutes Item 10: Review of the membership of the working group

15. During the meeting, the group reviewed the nominations received for the membership of the group and recommended as follows:

Sl. No.	Name	Country	Remarks
(1)	Mr. Yao Bin	China	Provisional Member
(2)	Dr. Zhang Guohua (Young Professional)	China	Provisional Member
(3)	Mr. Sher Singh	India	Observer
(4)	Prof. Chang Eon Park	Korea, Rep. of	Provisional Member
(5)	Eng. S. Mohanarajah	Sri Lanka	Provisional Member
(6)	Mr. Siboniso Phillip Mkhali in place of VPH Felix Reinders	South Africa	Accepted, represented by Mr J Potgieter
(7)	Mr. Suhad Jassim Obeed	Iraq	Provisional Member
(8)	Mr. Hussein Shanan Abid Al-Husseini (Young Professional)	Iraq	Provisional Member
(9)	Mr. Ömer Faruk Akbulut	Turkey	Accepted, Present

16. Membership status is given in **Annex 5 (page 33)**. The WG elected the following as the new management group of the WG –

- Chair : Dr A.K. Randev (India),
- Vice Chair : Mr Carl Walters (Australia),
- Secretary : Mr Suman Sijapati (Nepal)

WG-SON-FARM Minutes Item 11: Any other business**Webinar/ web-based seminar**

17. WG supported suggestion of organizing webinars which will promote sharing of vast expertise available with ICID fraternity with Members of the NCs. WG Chair requested members to provide their suggestions on the topics, based on the mandate of the WG, on which webinar can be considered along with name of the relevant experts who could be contacted to develop webinars.

18. At the end, VPH Reinders as outgoing Chair thanked WG members for their hard work especially the Vice Chair Prof Peter Kovalenko and Secretary Dr AK Randev for their support. The WG had achieved a lot and was the receiver of the Best Performing Workbody Award (BPWA) of ICID during his term. It was only possible with the support of everyone.

19. Mr Stephen Mills on behalf of the WG Members and participants thanked VPH Reinders for his leadership and guidance since 1998 as Chair of this WG. Dr Randev also thanked VPH Reinders whole heartedly for the consistent and strenuous efforts of VPH Reinders for leading the group to an appreciable heights and assured him for the continuity with same zeal under his guidance in future.



Annex [Appendix XVIII, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: VPH Felix B. Reinders (Chair), VPH Peter Kovalenko (Vice Chair), Dr. A.K. Randev (Secretary)

Date: November 2016

		Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 1: Enable higher crop productivity with less water and energy	1.1 Prepare country overview papers	Papers	Prepare two country overview papers	Prepare one country overview paper	Prepare two country overview papers		
	1.2 Prepare how to do thematic documents ready	Document	Prepare one how-to-do document	Prepare one how-to-do document	Prepare one how-to-do document	Prepare one how-to-do document	Prepare one how-to-do document
	1.3 Draft Position paper on key issues on sustainable on-farm irrigation systems	Position paper	Prepare first draft paper	Finalize the position paper	Prepare second draft paper	Finalize the position paper	
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Organize international workshop, seminar or symposium	Compilation of proceedings	First internal Workshop	Organization of the 9th International Micro Irrigation Conference (IMIC) in January 2019 at Aurangabad, India	Hosting of 9th International Micro Irrigation Conference (IMIC) in January 2019 at Aurangabad, India	Second workshop	Third workshop
	3.2 Research article on state of the art for publication in Irrigation and Drainage Journal	Articles	Prepare one article	Publication in Journal	Prepare one article	Publication in Journal	Prepare one article
	3.3 Database on sprinkler and micro irrigation in the world	Database	Updating database	Updating database	Updating database	Updating database	Updating database



**Minutes of the 19th Meeting of the
WORKING GROUP ON HISTORY OF IRRIGATION, DRAINAGE AND
FLOOD CONTROL (WG-HIST)**

10 November 2016, 13.30-15.00 hours (Session I)
10 November 2016, 15.30-17.00 hours (Session II)
Chiang Mai, Thailand

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 1998

Extended the completion of the Mandate: 2016

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 management, and river engineering, incorporating relevant agricultural, political, socio-economic, climatologically and geographical aspects for proper understanding of the technological developments in the subject, if possible chronologically. Furthermore, to organize seminars at ICID Congresses, in order to show the importance of historical studies and as to how they help when planning for the new projects.

Members Present: (1) Dr. Kamran Emami, Chairman (Iran); (2) Prof. Dr. N. Hatcho (Japan); (3) Mrs. Xuming Tan (China); (4) VPH Dr. Laszlo Hayde (Hungary); (5) VPH Dr. A. Hafied A. Gany (Indonesia); (6) VPH Chaiwat Prechawit (Thailand); (7) Mr. Antonio Linoli (Italy) represented ITAL-ICID; (8) Vice President Hon. Gerhard Backeberg (South Africa).

Observers: (i) President Hon. Bart Schultz (Netherlands); (ii) Mr. Yean-Yuan, Chen (Chinese Taipei); (iii) Dr. Ismail Widadi (Indonesia); (iv) Mr. Sotiyartono (Indonesia); (v) Mr. Toshihiko Kuno (Japan); (vi) Mr. Naoki Hayashida (Japan); (vii) Mr. Masao Miyazaki (Japan); (viii) Mr. Yohei Sato (Japan); (ix) Dr. Jeongryeol Jang (Korea, Rep. of); (x) Mr. Mohd Adnan Mohd Nor (Malaysia); (xi) Mr. Mukhlis Bin Zainol Abidin (Malaysia); (xii) Mr. Mohd Azmi Ismail (Malaysia); (xiii) Mr. Mu Than (Myanmar).

Website: <http://wg-hist.icidonline.org/>

WG-HIST Minutes Item 1: Action taken report by Chair

1. At the onset, Chairman welcomed all members and presented the report on the actions taken on the various decisions/ proposals viz. publication of the group, HIS and WSH program, preparation of closure report and scoping document of the working group since Montpellier meeting in 2015. As a teamwork, members prepared a list of uses of Water history for modern water engineers.

WG-HIST Minutes Item 2: ICID Action Plan 2030 – Activities on history of irrigation, drainage and flood control

2. During the meeting, the group discussed the draft Action Plan 2030 (**Annex**) and finalized it for its submission to PCTA. The listed activities include finalization of publication on historical water sustainability, organization of workshop, historical irrigation structures (HIS), World Water System Heritage (WSH) Program, preparing a paper on combination of old methods of irrigation and new technologies, documentary on historical water wisdom, updating the website etc.

WG-HIST Minutes Item 3: Publication on “Historical Water Sustainability”

3. The Chairman briefly described the process of publishing the WG book on ‘Historical Water Sustainability’ which was the first priority. The review process was continued according to the previous arrangements and the deadline to finish the review was end of 2016. There was a discussion on the need for editing the final draft and the chair proposed to seek assistance from PH Peter Lee and Mr. Charles Abernethy, if possible, for the same. WG decided to organize a workshop during Mexico meetings on “Historical Water Sustainability” in 2017 and the book would be released in the workshop.

WG-HIST Minutes Item 4: Exchange of information, knowledge & networking – Website

4. Realizing the importance of exchange of information and knowledge through the Website, the Chairman encouraged the members to share interesting articles, documents etc. for posting on the groups website. VPH Laszlo Hayde (The Netherlands) informed the WG on the following events: (a) Seminar by ICOMOS on architecture,

(b) Seminar by ICOMOS on water history, (c) Recent publication on Water Heritage, and (d) Conference on Heritage in November 2016.

WG-HIST Minutes Item 5: Review of Historical Irrigation Structures (HIS) and WSH Program

5. The Chairman reiterated the development of World Water System Heritage (WSH) Program during the meeting and agreed to closely follow the activities of WSH. The group noted that 58th meeting of the Board of Governors (BoG) of the World Water Council (WWC) held in March 2016, in principle approved the World Water System Heritage (WSH) Program, which has since been launched at the 20th Anniversary function of WWC in Marseilles (France) in November 2016. The Chairman, however, emphasized that the focus of the WG will remain on the publication of “Historical Water Sustainability” in 2017.

6. The WG noted that the Panel of Judges (PoJ) evaluated the nominations for HIS and selected 12 nominations from China (3), Korea (2), and Japan (7) in 2016 for inclusion in the register of HIS.

WG-HIST Minutes Item 6: Closure report and Scoping Document (mandate) of the Working Group

7. The Chair Dr. Emami presented the closure report and discussed the scoping document (SD) during the meeting. As per procedure approved by the IEC for setting up of the new WGs, after submission of Scoping Document by the WG, it will be circulated to all NCs in order to ascertain their interest in the activities of the WG and their suggestions/ comments as well as for nominating members for the WG. Since the SD was not circulated to all NCs, it was proposed that the SD be circulated to all NCs for their comments and nominations before finalization during the next meeting at Mexico City in 2017. Given the above and on-going process of WG publication, it was decided to request the PCTA for extension of tenure and circulate the scoping document to all NCs, which was accepted in principle with the suggestion to further develop the scoping document for new WG.

WG-HIST Minutes Item 7: Report on Side Event on History of irrigation and drainage around the world, November 2016, Chiang Mai

8. A Side Event (SE) on the ‘History of Irrigation and Drainage around the World’ was organized during WIF2 on 8 November 2016. PH Dr Gao Zhanyi (China) coordinated the side event in cooperation with the Chair Dr. Emami. Chair Dr. Emami informed that two presentations were made during the event viz. (i) Introduction of the activities of WG-HIST; and (ii) Historical Water Sustainability in Iran, among others. The other presentations were – (a) History of Land and Water Management in the Netherlands by PH Bart Schultz, (b) Scientific approaches to draw lessons from historical irrigation structures by VP Ding Kunlun, (c) How can we make use of Heritage Irrigation Structures after listing by Prof. Shinsuke Ota, (d) Italian Historic Irrigation System by Dr Marco Arcieri, (e) Learnings from Heritage Irrigation Structures and Systems in China by Dr Li Yunpeng, (f) Africa Historic Irrigation System by VPH Adama Sangare, and (g) Japan Historic Irrigation System by Mr. Naoki Hayashida. It is proposed to upload these presentations on the WG website.

9. The Chairman also informed that a History Exhibition was also organized based on the contributions from China, Japan and Korea. In all, ten posters were presented by the CNCID, JACID and KCID which were appreciated by the members. The Chair expressed special thanks to these NCs for their contributions.

WG-HIST Minutes Item 8: Any other business

10. Since Dr. Bert Toussaint, WG’s Secretary from The Netherlands, had resigned, a new Secretary was to be elected but in absence of candidature, the election was deferred to the next meeting of the WG in 2017 at Mexico City.



Annex [Appendix XIX, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: Dr. Kamran Emami (Chair), Dr. Bert Toussaint (Secretary)

Date: November 2016

		Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 2: Be a catalyst for change in policies and practices	2.1 Publication	Publication	Finalize the publication on Historical Water Sustainability	Compile lessons learned from HIS/ WSH		Compile lessons learned from HIS/ WSH	
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 International conference/ workshop/ seminar	Workshop Proceedings	Workshop/ seminar on Historical Water Sustainability		Workshop/ seminar		
	3.2 Historical Irrigation Structures (HIS)	Register of HIS	Nomination/ evaluation / update register	Nomination/ evaluation /update register	Nomination / evaluation / update register; Exhibition at WIF3	Nomination/ evaluation /update register	
	3.3 World Water System Heritage (WSH) Program		Nomination/ evaluation / update register	Nomination/ evaluation / update register	Nomination / evaluation / update register, Exhibition at WIF3	Nomination/ evaluation / update register	
Goal 4: Enable cross disciplinary and inter-sectoral engagement	4.1 International conference/ workshop/ seminar 4.2 Producing documentary on "Historical Water Wisdom"	Workshop Proceedings Documentary	Workshop on Historical Water Sustainability	Workshop on the history of management methods in irrigation	Workshop on the history of management methods in irrigation		
Goal 5: Encourage research and support development of tools to extend innovation into field practices	5.1 Preparing a paper on combination of old methods and new technologies		Presenting the first paper in the WG workshop and other seminars	Presenting the second paper in the WG workshop and other seminars			
Goal 6: Facilitate capacity development	6.1 Producing documentary on "Historical Water Wisdom" 6.2 Updating the WG-HIST website		Tentative gathering of the related documentaries from the member countries	Encouraging the member countries to produce documentaries on water history by presenting the prize on the best documentaries			



**Minutes of the 1st Meeting of the
WORKING GROUP ON CAPACITY DEVELOPMENT, TRAINING AND EDUCATION (WG-CDTE)**

10 November 2016, 13.30-15.00 Hours (Session I)
10 November 2016, 15.30-17.00 Hours (Session II)
Chiang Mai, Thailand

Strategy Theme: Knowledge

Year of Establishment: 2015

Completion of the Mandate: 2021

Mandate: (i) Coordinate and guide the knowledge management activities of the Commission and the capacity development activities by various WGs; (ii) Compile the status of training and educational programmes offered in different regions; (iii) Compile the Educational Programs being offered in irrigation and drainage in different regions; (iv) Identify the training and education requirements, and identify gaps in available training programs, explore the feasibility of developing e-learning program and prepare guidelines for their development to support education and training programmes; (v) Explore the scope of use of IT in capacity development including distant learning, and implement where feasible; (vi) Make available various tools required for sustainable development; (vii) Oversee the establishment and functioning of a Technical Support Unit for supporting NCs; and (viii) Facilitate the process of balancing education and training requirements, and provision and training services

Members Present: (1) Dr. Abdelhafid Debbarh (Chairman); (2) Dr. Young D. Kim (Korea, Rep. of); and (3) Er. Harish Kumar Varma, ICID CO, representing Secretary General, ICID

Observers: Representative from (i) Korea; (ii) Morocco; (iii) India; (iv) Prof. Dr. Charlotte de Fraiture (Netherlands); (v) Ms. Jakia Akter (Bangladesh); (vi) South Africa; (vii) Sri Lanka; (viii) Nigeria; and (ix) Hungary.

WG-CDTE Minutes Item 1: Introduction and Rationale of the new working group

1. The Chairman welcomed the participants to the first meeting of the Working Group. A total of 12 participants (3 regular members and 9 observers) attended the meeting, they are from the following countries: Korea, Morocco, India, Netherland, Bangladesh, South Africa, Sri Lanka, Nigeria and Hungary.

2. It was recalled that WG-CDTE has been formed as per decision of the Council at its 66th International Executive Council (IEC) held in 2015 (*Resolution IEC-3/66*). NCs were requested to nominate experts dealing with the concerned topics and contribute to the activities of the Group (ICID vide notification 6 of 2016 dated 4 March 2016). Only two members in addition to Secretary General of ICID have been nominated as members of this group. A number of new candidates have been proposed by NCs to become members of this group (the membership will be discussed in agenda item 5.1). Because of the importance of CDTE for sound Agricultural Water Management (AWM) implementation, this group does play a key role in empowering YP and NCs as well as disseminate the appropriate modern tools (ITC and e-learning materials) to help them develop their capabilities and overcome any gaps they may have. Activities of the group is cross-cutting with the other WG, therefore a close collaboration will need to be developed with them to achieve its goals.

WG-CDTE Minutes Item 2: ICID Action Plan 2030 – Activities on capacity development, training and education

3. The Group discussed and finalized the draft action plan and recommended to PCTA for inclusion in ICID Action Plan for Vision 2030; the final proposed action plan is at **Annex**. It is worth mentioning that the group considers that goals 1, 2 and 4 do not fit with its mandate and missions, therefore no activities are proposed for these goals. Though, it is suggested to support other WG for the objectives that might be related to CDTE.

WG-CDTE Minutes Item 3: Promoting capacity development, training and education

WG-CDTE Minutes Item 3.1: Setting up of Technical Support Unit (TSU)

4. The WG discussed about functioning of a Technical Support Unit for supporting NCs and suggested to coordinate with the TSU especially in the domains of CDTE. The WG will assess the support needed by the NCs in terms of Training and Education in the area of Agricultural Water Management and will request TSU to provide necessary support to NCs in this direction. The WG will undertake the studies related to “the capacity development needs, available training courses, gaps, institutes which can provide training to fill gaps” and “the role of ICT in

capacity development in agricultural water management” and will share outcome of these studies with the TSU to help them define the potential support needs in these areas. Close relationships and coordination will be fostered with TSU.

WG-CDTE Minutes Item 3.2: Capacity development – Training program on on-farm water use and management, April 2016, Egypt

5. The Working Group noted with great satisfaction the successful organization of the capacity development program in Egypt in April 2016 by ENCID in collaboration with the Regional Center for Training and Water Studies (RCTWS) on “On-farm Water Use and Management”. This regional activity has been supported by African- Asian Rural Development Organization (AARDO), Ministry of Water Resources China through CNCID and Korea Rural Community Corporation (KRC) through Korean National Committee on Irrigation and Drainage (KCID). The group takes this opportunity to express its appreciation and thanks to all these organizations; this is a new model of solidarity between NCs that can be further developed and duplicated for other activities and regions. The group congratulate ENCID for the excellent organization and success of this workshop.

WG-CDTE Minutes Item 3.3: E-learning programs

6. WG has noted with satisfaction the efforts undertaken by ICID Central Office in the domain of capacity development through e-learning programmes, namely (i) the support of 12 YP to participate to UNESCO-IHE and United Nations University Institute for the Integrated Management of Material Fluxes and Resources (UNU-FLORES) e-learning program and (ii) development of the e-module on ‘Micro irrigation’ by Indian National Committee (INCISW). The group suggested that actions should be undertaken to create a platform gathering existing and prospective e-learning modules on AWM that can be available for all NCs in general and YPs, in particular. A particular effort will be made to gather the available existing e-learning modules through the NCs as well as the various institutes and education and training centers in AWM.

7. WG appreciated the efforts made by the Secretary General, ICID in developing the potential collaboration between the ICID through WG-CDTE and the Rural Community-International Education and Exchange Center (RC-IEEC), Korea that was lately created. The WG noted the importance of training and education infrastructures developed by this center through the brief presentation made by Dr Young D. Kim (Korea). The group recommend that RC-IEEC be considered as a partner center of WG-CDTE for the various training and education activities in AWM especially for Asian Region. A suggestion was made to study the feasibility of developing exchange (mobility) programs for YPs and researchers between RC-IEEC and similar partner institutions in the various NCs countries.

8. WG welcomed the proposal of SG to develop collaboration with Asian Institute of Technology (AIT-Thailand) in the domain of CDTE in AWM. The group will seek further in depth discussions with AIT to define the topics and modalities of collaboration as well as the contact focal person.

9. WG supported and approved the proposal of ICID Central Office for organizing Webinars to promote sharing of vast expertise, experience and knowledge available with ICID fraternity with Members of the NCs. The group will contribute to mobilize experts in the various topics related to AWM to provide Webinar short seminars that can be attended directly on line as well as indirectly through saved web files. These activities should be coordinated with the other WG and ICID central office.

10. WG is completely in favor of the use of Web-Ex platform for its further discussions and organization of virtual meetings. The group will seek the support of central office to inform its members to create their links and inform them about the best way to use it.

WG-CDTE Minutes Item 3.4: Webinar/ web-based seminar

11. The Working Group discussed and supported the idea of webinar/ web-based seminar. WG agreed to support the activities of the different working groups in this aspect. WG Chair requested members to provide their suggestion on topic for webinars along with names of experts who can deliver webinars.

WG-CDTE Minutes Item 4: Dissemination of knowledge – website

12. The Working Group suggested ICID Central Office to create a webpage of the group and upload mandate, list of members and minutes initially. The Chair of the Group requested members to provide information such as papers and relevant documents for uploading on the website.

WG-CDTE Minutes Item 5: Review of membership of the working group

13. The following nominations for the membership were accepted/ provisionally admitted:

S. No.	Members	Country	Accepted/ Provisionally admitted
1.	Mr. Mirza Asif Baig	Pakistan	Provisionally admitted
2.	Dr. Nader Heydari	Iran	Provisionally admitted
3.	Eng. Abu Obieda Babiker Ahmed Hassan	Sudan	Provisionally admitted
4.	Mr. Ramesh Kumar	India	Provisionally admitted
5.	Mr. Hasan Basri Yuksel	Turkey	Provisionally admitted
6.	Ms Dahile Abdulqader Abdulhameed (YP)	Iraq	Provisionally admitted
7.	Mr. Raad F. Amein Taha	Iraq	Provisionally admitted

14. Membership status is given in **Annex 5 (page 33)**. A number of Observers have participated to WG-CDTE session and showed a great interest to become member. They have been encouraged to get themselves nominated through their respective NCs.

WG-CDTE Minutes Item 5.1: Election of Vice Chair and Secretary

15. The group discussed and elected unanimously Dr Young D. Kim as Vice Chair. No one yet is nominated for the position of the Secretary.



Annex [Appendix XX, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: Dr. Abdelhafid Debbarh (Chairman)

Date: 10-11-2016

		Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Guide and support organization of seminar/ workshops etc. by WGs and NCs	Networking and exchange of knowledge	Regular	Regular	Regular	Regular	Regular
	3.2 Report on capacity development needs, available training courses, gaps, institutes which can provide training to fill gaps etc.	Study report	Discussion, collection and analysis of information Draft report	Finalisation and release of report	Collection of additional data and information	Updation of report	Collection of additional data and information
	3.3 Report on role of ICT in capacity development	Study report	Discussion, collection and analysis of information Draft report	Finalisation and release of report	Collection of additional data and information	Updation of report	
Goal 5: Encourage research and support development of tools to extend innovation into field practices	5.1 Overseeing activities of Technical Support Unit (TSU)	Capacity development and technical support to NC	Regular	Regular	Regular	Regular	Regular
Goal 6: Facilitate capacity development	6.1 Establishment of a distance learning mechanism	e-learning modules	Identification of topics and resource person/institutes for development of e-learning modules	Development of e-learning modules and its wider dissemination	Development of e-learning modules and its wider dissemination Identification of additional topic etc.	Development of e-learning modules and its wider dissemination	Development of e-learning modules and its wider dissemination
	6.2 Capacity development/ training program	Training of professionals	Organisation of regional training programme one every year	Organisation of regional training programme one every year	Organisation of regional training programme one every year	Organisation of regional training programme one every year	Organisation of regional training programme one every year
	6.3 Webinar	Online meeting	Identification of topics and resource persons/ institutes	Support development of webinar material and its wider dissemination	Support development of webinar material and its wider dissemination	Support development of webinar material and its wider dissemination	Support development of webinar material and its wider dissemination
	6.4 An online directory of institutes providing formal degree in Irrigation and Drainage	Online course	Collection and analysis of information and its wider dissemination	Updation of information	Updation of information	Updation of information	Updation of information



**Minutes of the 1st Meeting of the
TASK FORCE TO GUIDE ICID INPUTS TO 8TH WORLD WATER FORUM (TF-WWF8)**

8 November 2016, 11-15-13.15 hours
Chiang Mai, Thailand

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 2015

Completion of the Mandate: 2018

Terms of Reference (ToR): (a) To provide overarching lead role on behalf of ICID in monitoring and pushing forward the actions set in IR (Implementation Roadmap) and for inputs to 8th WWF by liaising with the National Committees and Workbodies; (b) To liaise with Brazilian National Committee (ABID) for preparatory work of 8th WWF; (c) To liaise with 8th WWF Program Committee and other International Bodies, especially FAO; (d) To regularly report to the IEC of the developments in the preparatory works leading to 8th WWF and recommend ICID inputs for consideration in 67th IEC; (e) To entertain activities to promote ICID's visibility in World Water Council.

Members Present: (1) President Hon. Chandra Madramootoo, Chairman (Canada); (2) President Hon. Bart Schultz (Netherlands); (3) Mr. Gustavo Hinojosa (Mexico); (4) Dr. Waldo Ojeda (Mexico).

Observers: (i) President Saeed Nairizi (Iran) (ii) Mr. Anuj Kanwal (India); (iii) Mr. Alireza Salamat (Iran); (iv) Dr. Kazumi Yamaoka (Japan); (v) Mr. Patricia Herrera (Mexico).

TF-WWF8 Minutes Item 1: Introduction by the Chair

1. Chair PH Chandra Madramootoo welcomed all the members and briefed them on the ToRs of the Task Force (TF) and various activities of the TF viz. implementation of roadmap emerging from TF-WWF7, kick-off meeting in June 2016, liaison with Brazil NC etc.

TF-WWF8 Minutes Item 2: Implementation of roadmap (IR) and inputs to 8th WWF

2. During the meeting, the TF reviewed the Thematic Framework of the 8th World Water Forum (WWF8) and agreed to collaborate with FAO and IWMI on the joint coordination of the topic "Water for Food Security" under the Theme "Development – Water for sustainable development". The three organizations had collaborated on the organization of a joint session at previous Fora, and the TF will continue this joint effort at WWF8, since the above 3 primary global institutions were involved in water for food security.

3. The Chairman briefly brought the attention of the members to the Thematic Framework for WWF8 (**Annex**) and informed that in addition to contributing to the Topic of Water for Food Security, ICID will also collaborate with other Topics and Theme Coordinators, once the information becomes available, in the areas of (i) Climate: Water security and climate change, (ii) Ecosystems: Water quality, ecosystem livelihoods and biodiversity, (iii) Financing: Financing for water security, (iv) Governance: Water governance for the 2030 development agenda, (v) Capacity: Education, capacity building and technology exchange.

4. Chair further informed that ICID was also willing to work with any regional sessions that might be proposed. One focus would be Latin America and the main goal of the TF will be to work with MXCID on the organization of an Americas Session during the 68th IEC and 23rd Congress in October 2017 in Mexico. This could lead to a broader engagement of irrigation and drainage professionals and decision makers from Latin America in the area of water for food security.

TF-WWF8 Minutes Item 3: Report of the kick-off meeting of WWF8, 27-28 June 2016, Brazil

5. Chair briefed the TF on the Kick-off meeting held at the Convention Center Brasilia (Brazil) from 27-28 June 2016. Dr. Helvecio Saturnino, President of Brazilian National Committee (ABID) represented ICID at this meeting. During the Kick-off meeting, Dr. Saturnino informed the President of the World Water Council (WWC), Dr Benedito Braga about the establishment of ICID's TF-WWF8 and the participation of ICID at WWF8 in Brazil.

TF-WWF8 Minutes Item 4: Liaison with Brazilian National Committee (ABID) for preparatory work of 8th WWF

6. While the 8th World Water Forum will be held in March 2018 in Brazil, the Chairman emphasized on the role of Prof. Helvecio Saturnino towards preparatory work of 8th World Water Forum and his support to ICID for liaison with the Forum Organizing Committee in Brasilia.

7. The TF further noted the willingness of MXCID to facilitate the discussions and to solicit inputs of experts in water for food security from Latin America. The efforts on part of MXCID are especially important since ICID is weakly represented in South and Central America.

TF-WWF8 Minutes Item 5: Identify areas for ICID contributions to the Forum

8. The Chair briefly outlined the involvement and contributions of ICID to the 8th World Water Forum. After discussion in the meeting, following decisions were taken in consultation with the members:

- (a) ICID will collaborate with FAO and IWMI to coordinate the topic of Water for Food Security. The proforma requested by the WWC Organizing Committee will be sent by Central Office to Dr. Olcay Unver, Director of the Water and Land Division of FAO. He will update and submit it to WWF8 Secretariat before the deadline of 17 November 2016.
- (b) The NCs and WGs will be requested to provide inputs and suggestions for issues to be taken up by ICID at WWF8.
- (c) The Special Issue of the ICID Journal on the WIF2 will be made available as input to the content of WWF8.
- (d) A Special Issue of ICID News capturing the 'Conclusions and Recommendations' of the WIF2 is to be prepared by ICID Central Office as contribution of ICID to WWF8.
- (e) A report on modernization of irrigation/ drainage, standards and codes of practices will be prepared by MXCID by October 2017.
- (f) In addition to the topic on 'Water for Food Security', ICID will also participate in other Themes and Topics at the Forum.
- (g) The ICID National Committees will be invited to arrange their NC booths in the Exhibition area of the Forum at their own cost.

TF-WWF8 Minutes Item 6: Review of membership of the Task Force

9. Chair reviewed the nominations received from the National Committees of Australia, Iran, India, and Iraq for the membership of the TF and recommended their membership as below:

S. No.	Name	Country	Recommendations
(1)	Dr. Amgad Elmahdi	Australia	Provisionally admitted
(2)	Mr. Ali Reza Salamat	Iran	Accepted
(3)	Mr. Anuj Kanwal	India	Provisionally admitted
(4)	Mr. Alaa Turki Khudhair Al-Masoodi	Iraq	Provisionally admitted
(5)	Mr. Waleed Kh. Qassim Alhadidi (Young Professional)	Iraq	Provisionally admitted

10. Membership status is given in **Annex 5 (page 33)**. In addition, it was suggested to invite a representative of USCID through VPH Larry Stephens, VPH Dr. Ding Kunlu of CNCID, Stephen Schonberger of the World Bank, Dr. Olcay Unver (FAO), and Dr. Jeremy Bird/Ian Makin (IWMI) to serve on the TF.

TF-WWF8 Minutes Item 7: Any other business

The meeting ended with thanks to the Chair.



8TH WORLD WATER FORUM (WWF8)
Brasilia, March 2018

The Thematic Structure – at a glance



THEMES

CLIMATE – Water security and climate change

(SDG links: SDG 13, SDG 11.5, COP 21-22, Sendai DRR Summit)

- (a) Managing risk and uncertainty for resilience and disaster preparedness – IR 1.3
- (b) Water and adaptation to climate change
- (c) Water and climate change mitigation
- (d) Climate science and water management: the communication between science and decision/ policy making

PEOPLE - Water, sanitation and health

(SDG links: Water targets 6.1, 6.2, 6.3, 6.B and SDG's 1 and 3)

- (a) Enough safe water for all – IR 1.1
- (b) Integrated sanitation for all – IR 1.2
- (c) Water and public health

DEVELOPMENT - Water for sustainable development

(SDG links: Water target 6.4 and SDG's 2, 7, 8, 11 and 12)

- (a) Water, energy and food security nexus
 - Water for Food - IR 2.1
 - Water for Energy - IR 2.2
- (b) Inclusive and sustainable growth, water stewardship and industry – IR 3.1
- (c) Efficient use of surface water and groundwater - urban and rural
- (d) Infrastructure for sustainable water resource management and services – IR 1.4

URBAN – Integrated urban water and waste management*(SDG links: Water target 6.3 and SDG's 11 and 14, HABITAT 3)*

- (a) Water and cities – IR 2.3
- (b) The circular economy – reduce, reuse, recycle
- (c) Treatment and reuse technologies

ECOSYSTEMS - Water quality, ecosystem livelihoods and biodiversity*(SDG links: Water targets 6.3, 6.6 and SDG 15)*

- (a) Managing and restoring ecosystems for water services and biodiversity – IR 3.2
- (b) Natural and engineered hydrological systems
- (c) Water and land use
- (d) Ensuring water quality from ridge to reef – IR 3.3

FINANCING – Financing for water security*(SDG link: SDG's 6 and 17)*

- (a) Economics and financing for innovative investments – IR 4.1
- (b) Financing implementation of water-related SDGs and adaptation to climate change
- (c) Finance for sustainable development – supporting water-friendly business

CROSS-CUTTING ISSUES**SHARING – Sustainability through stakeholder involvement***(SDG link: Water target 6.b and SDG's 3, 15 and 17)*

- (a) Sharing solutions and good practices
- (b) Involving all: public, private, civil society – women and men – young and old - in bottom up and top down approaches
- (c) Water, cultural diversity, justice and equity – IR 4.4

CAPACITY - Education, capacity building and technology exchange*(SDG link: Water target 6.a and SDG's 4 and 17)*

- (a) Enhancing education and capacity building – IR 4.5
- (b) Science and technology and decision/ policy making – 7th World Water Forum S&T Process
- (c) ICT and monitoring
- (d) International cooperation

GOVERNANCE - Water governance for the 2030 Development Agenda*(SDG link: Water target 6.5, SDG 17)*

- (a) SMART implementation of IWRM - IR 3.4
- (b) Cooperation for reducing conflict and improving transboundary water management – IR 4.3
- (c) Effective governance: Enhanced political decisions, stakeholder participation and technical information – IR 4.2

Thematic Commission, 28th October 2016

**Minutes of the 5th Meeting of the
TASK FORCE ON VALUE ENGINEERING (TF-VE)**

09 November 2016: 09:00-10:30 hours (Session-I)

09 November 2016: 11:00-12:30 hours (Session-II)

Chiang Mai, Thailand

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 2012

Completion of the Mandate: 2016

Mandate: The objective of the Task Force (TF) would be to promote the application of Value Methodology (Value Engineering, Value Analysis, Value Planning, Value Management and Value Engineering Change Proposal (VECP) in irrigation, drainage and flood management projects to increase benefits, reduce cost and ensure sustainable irrigated agriculture.

Terms of Reference (ToR)

1. Develop a Website on application of Value Engineering in Irrigation and Drainage projects
2. Produce a Documentary on application of Value Engineering in Irrigation and Drainage projects
3. Organize workshops and seminars on application of Value Engineering in Irrigation and Drainage projects
4. Prepare a Manual on application of Value Engineering in Irrigation and Drainage projects

Members Present: (1) Dr. Kamran Emami (Iran), Chairman; (2) Mrs. Remziye Yildiz Gulagaci (Turkey), Vice-Chairman; (3) Ir. Nor Hisham M. Ghazali, Secretary (Malaysia); (4) Mr. Suman Sijapati (Nepal); (5) Dr. Toshihiko Kuno (Japan); and (6) Er. Harish Kumar Varma, Executive Director, ICID.

Honourable Member Present: VPH Dr. Hüseyin GUNDOGD (Turkey).

Observers: (i) VPH Dr. Hüseyin GUNDOGD (Turkey); (ii) Ir. Mohammad Asif (Afghanistan); (iii) Dr. Gurbachan Singh (India); (iv) Mr. Ahmet Seren (Turkey); (v) Ir. Omer Faruk Akbucut (Turkey); (vi) Ir. Mohd Anuar Musardar Yusoff (Malaysia); (vii) Ir. Wan Noorul Hafilah Wan Ariffin (Malaysia); and (viii) Ir. Mohamad Razali bin Motto Nazri (Malaysia).

Website: <http://tf-ve.icidonline.org/>

TF-VE Minutes Item 1: Action taken Report by Chair

1. Dr. Kamran Emami, Chairman of the TF-VE presented the report on actions taken on the decisions made during the Montpellier (2015), France meeting. WG Chair referred to the worldwide experience of VE, mentioned that usually it took a long time for VE to be fully functional. For example, VE started in General Electric in 1947 but serious application of VE in U.S. highways started 50 years later in 1997. In Japan, VE started in 1960 but the first application of VE in irrigation projects started only in 1998. WG Chair added that VE has complex methodology which is the main reason that there are few applications of VE in irrigation and drainage projects.

TF-VE Minutes Item 2: Internal Workshop of TF-VE at Chiang Mai, Thailand in 2016

2. An Internal Workshop on 'The Challenges of effective and efficient application of Value Engineering in Irrigation and Flood Projects' was organised by TF-VE on 09 November 2016 at Chiang Mai, Thailand wherein following four presentations and documentaries were presented:

- (a) Application of VE in irrigation and flood Projects
- (b) Challenges of application of VE in irrigation projects in Japan
- (c) Value Engineering of surface water project
- (d) Value Engineering in federal highways in U.S.

3. The members and observers discussed the reason why it would take a very long time for VE to be fully functional in an organization or discipline and concluded that there may be number of reasons as indicated below.

- (a) Vaccination (everybody thinks he or she know VE intuitively)
- (b) Required deep understanding of Senior management
- (c) Lack of Belief in effectiveness and efficiency of this proven technique
- (d) Inadequate investment
- (e) Complexity of the methodology

- (f) Lack of experience
- (g) Resistance to change
- (h) Governmental financing of the projects
- (i) Limited number of VE experts
- (j) Poor certification
- (k) Poor training
- (l) Lack of strong support from senior management
- (m) Lack or inadequate laws and regulations
- (n) Lack of VE program
- (o) Need for whole brain thinking
- (p) Large scale of many irrigation and drainage projects

4. The chair circulated the presentations and films of the internal workshop to the members and observers during the meeting.

TF-VE Minutes Item 3: Publication of the TF-VE

5. WG discussed the issue and modalities of bringing out a manual on 'Application of Value Engineering in Irrigation and Flood Projects' and decided on the following contributions from the members to finalise publication:

- (a) Japan: 5 case studies of application of successful VE in irrigation and drainage projects in Japan
- (b) Malaysia: 5 case studies of application of successful VE in irrigation and flood projects in Malaysia
- (c) Iran: 5 case studies of application of successful VE in irrigation and drainage projects in Iran
- (d) Afghanistan: 5 case studies of application of successful VE in irrigation and drainage projects in world.

6. The deadlines for submission of the case studies has been agreed as the end of 2016.

TF-VE Minutes Item 4: Dissemination of Information – Web site

7. The members were requested to provide material, document, reports, presentations etc. for uploading on TF website to enrich contents on the TF website.

TF-VE Minutes Item 5: Closure report of the Task Force

8. WG members discussed the issue of the closure of the TF. There was a strong consensus about the need for promoting VE in ICID which would need more time and WG recommended the formation of a working group on Value Engineering to PCTA, which was accepted in principle with the suggestion to develop the scoping document for new WG. The TF Chair was assigned to prepare the closure report and circulate to all members of the TF before submitting to ICID CO.

9. As per procedure approved by the IEC for setting up of the new WGs, TF-VE, acting as a core group, will prepare scoping document and circulate to its members for comments, if any and submit updated SD incorporating comments of the members to the ICID CO for circulation to all NCs to ascertain their interest in the activities of the WG and their suggestions/comments as well as for nominating members for the WG. The SD will be further discussed and finalized during the next meeting at Mexico City in 2017 for its approval by PCTA/IEC. The membership status is given in **Annex 5 (page 33)**.

TF-VE Minutes Item 6: Any other business



**Minutes of the 25th Meeting of the
COMMITTEE ON PUBLIC RELATIONS AND PUBLICATIONS (C-PR&P)**

8 November 2016, 09.00-11.00 hours
Chiang Mai, Thailand

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 1992

Mandate: (i) 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; and to encourage the use of communications specialists to ensure that the ICID public relations effort is effective, (ii) 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, (iii) 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 Present: (1) VPH Larry D. Stephens, Chairman (USA); (2) PH Prof. dr. Bart Schultz (The Netherlands); (3) Dr. Yingduo Yu (China); (4) Ms. Indica, WAPCOS Limited (India); (5) Mr. Madhu Mohanan represented Secretary General Avinash Tyagi.

Website: <http://c-prp.icidonline.org/>

C-PR&P Minutes Item 1: Action taken report by Chair

1. Committee encouraged all workbodies to make use of the video conferencing facilities made available by the Central Office in order to monitor the actions taken on the decisions of the workbody. The Committee was of the opinion that a virtual meeting through video conference also provides an opportunity to participate in the activities of the workbody for those members who were unable to attend the meetings physically. The minutes of the 24th meeting of the Committee held at Montpellier in 2015 were approved.

C-PR&P Minutes Item 2: ICID Action Plan 2030 – Activities of the workbodies

2. The Committee noted that at the 66th IEC meeting, the Council had approved the new Vision, Mission and six Organizational Goals for ICID. The Committee also noted that an action plan was to be drafted by the Consultative Group (CG), which required the inputs from ICID Work Bodies to identify actions to achieve the Organizational Goals in their area of activities which would form part of ICID Action Plan 2030. The Committee was curious to learn about Action Plan 2030 in due course of time.

C-PR&P Minutes Item 3: Publications brought out and under processing during period 2015-16

C-PR&P Minutes Item 3. 1: Periodicals

3. During the meeting, the Committee noted that Fifty-two issues of ICID e-Bulletin, 12 issues of News Update, and 4 issues of ICID News were published by the Central Office during the year. An Annual Report for 2015-16 was also published and shared with National Committees and stakeholders.

C-PR&P Minutes Item 3. 2: Special Publications

4. The Committee noted that during the year, Central Office had brought out the proceedings of the First India Irrigation Forum (IIF1) titled "*Partnership for Better Agriculture Water Management*" held on 7 April 2016, as a side event, during the India Water Week 2016 at New Delhi, India. The copies of the proceedings were shared with all relevant stakeholders.

C-PR&P Minutes Item 3. 3: Publications under processing

5. During the meeting, PH Bart Schultz reported that the publication titled '*Inter-Basin Water Transfer: Global Experiences – Analyses and Recommendations*' was still under preparation. Two additional publications viz. (i) Water use charging systems and available financing of irrigation development: Country case studies; and (ii) Water

Management in Water Stressed Regions, were also being finalized and are likely to be available in 2017. It was reported that the WG on History of Irrigation, Drainage and Flood Control (WG-HIST) is also preparing a publication titled “Historical Water Sustainability”.

6. PH Bart Schultz observed that there was important technical information available on the winners of the past WatSave Awards but has not been published so far. He recommended and the Committee also recommends that an overview of the WatSave Awards be prepared and published by ICID. The Committee recommended that this issue be considered during the PCTA meeting and assign to appropriate work bodies.

C-PR&P Minutes Item 3. 4: Publications by National Committees

7. During the meeting, the Committee noted and urged the National Committees to share their available literature/ catalogue with ICID Central Office for including in the ICID’s Integrated Library Management System (ILMS) to achieve the goal of ‘One-stop catalogue’.

C-PR&P Minutes Item 4: Report on ICID Journal

8. During the meeting, PH Bart Schultz presented a report on the *ICID Journal*. He informed that he receives about 250 papers each year and about 70 are accepted for publishing in the Journal. The Journal was now available in more than 10,000 libraries, he said. The Impact factor for the Journal was 0.561 in 2015. He informed the members about five most cited papers. There were two special issues published in 2016 and more were being planned in 2017 which includes selected papers from 4th African Regional Conference in 2016.

9. PH Schultz informed that the subscription cost of the Journal in 2017 will be US\$ 47 for ‘online’ and US\$ 56 for ‘online + print’ version and National Committees will be given the option to receive 10 online subscriptions or 5 online and 5 print subscriptions.

C-PR&P Minutes Item 5: Updating Multilingual Technical Dictionary (MTD)

10. The Committee noted the efforts of the Central Office in updating Multilingual Technical Dictionary (MTD) and recommended to continue it.

C-PR&P Minutes Item 6: Membership of the Committee

11. During the meeting, the Committee reviewed and accepted the nomination of Ms. Indica (in place of Mr. C.P. Arora) and welcomed her to the Committee. Committee also noted that the proposals for membership were also received for Sahar Norouzi from IRNCID; Hiyam Raad Adwan from IRQCID; and Oliver Taylor from ICID.UK. Since they were not available, the Committee approved their membership provisionally, pending their contributions during the year and/ or attendance at future Committee meetings. Membership status is given in **Annex 5 (page 33)**.

C-PR&P Minutes Item 7: Any other business

12. The Committee reviewed the ICID website, www.icid.org and noted the continuing efforts to improve the website. A new feature of the ICID website was the *Irrigation and Drainage Products and Services Directory*. Mr. Madhu informed that the companies and organizations have been invited to submit information about the products and services that they offer related to irrigation and drainage. The listing in the Directory was provided free of cost. National Committees were urged to share the information about this opportunity with organizations and companies in their countries and encourages them to make use of this platform.

The meeting ended with thanks to the Chair.



**Minutes of the 23rd Meeting of the
ICID JOURNAL EDITORIAL BOARD (EB-JOUR)**

10 November 2016, 11.00-12.30 hours (Session-I)

10 November 2016, 13.30-15.00 hours (Session-II)

Chiang Mai, Thailand

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 1994

Mandate: (i) To ensure with the (Joint) Editor(s) that the Journal is published in accordance with editorial policies; (ii) To select and recommend to IEC, through PCTA, the appointment of (Joint) Editor(s), Associate Editors and Members; (iii) To review and update editorial policies when required, to conform with the developing ICID objectives; (iv) To address and resolve issues pertaining to the Journal; and (v) To review guidelines for authors, manuscript reviewers and book reviewers and liaise and coordinate with ICID workbodies.

Members Present: (1) PH Prof. dr. Bart Schultz, Chairman (The Netherlands); (2) Prof. Jiusheng Li (China), Joint Editor; (3) Mr. Bernard Vincent (France), Associate Editor; (4) Prof. Daniele de Wrachien (Italy), Associate Editor represented by Dr. Graziano Ghinassi; (5) Dr. Takao Masumoto (Japan), Associate Editor represented by Dr. Yohei Sato; (6) Prof. Waldo Ojeda-Bustamante (Mexico), Associate Editor; (7) VPH Laszlo Hayde (Hungary), Associate Editor; (8) VPH Larry D. Stephens (USA); (9) Dr. Mohammad Javad Monem (Iran); and (10) Prof. Dr. Joong Dae, Choi (Korea); and (11) Dr. Vijay K. Labhsetwar, Director, ICID Central Office.

Observers: (i) Dr. Dominique ROLLIN (France) and (ii) Dr. Poolad Karimi (Iran).

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

EB-JOUR Minutes Item 1: Action Taken Report by Chair (from Editor, Chairman)

1. The Chairman PH Schultz informed that the report of the Chairman for 2015 had been disseminated to the members of the EB-JOUR before the meeting. Various points emerging from the report have been presented at the beginning of the meeting and were discussed during the meeting.

EB-JOUR Minutes Item 1.1: Special Issues

2. The Chairman informed that this year three Special Issues have been published:

- (a) Special Issue in the regular series with selected papers of the Gwangju (Korea) Congress (2014). It has been published as Issue 65.2;
- (b) Sponsored Special Issue with selected papers based on Gwangju Congress papers by authors from Asia. It has been published online. The printed version has been mailed together with Issue 65.4. The sponsor was the Korean National Committee of ICID (KCID);
- (c) Sponsored Special Issue with selected papers based on Gwangju Congress by Korean Specialists. It has been published online. The printed version will be mailed together with issue 65.5. The sponsor was the Korean National Committee of ICID (KCID).

3. In addition, one Special Issue in the series and five other sponsored Special Issues may be expected, they being:

- (a) Sponsored Special Issue on New Developments on Irrigation in Africa: This special issue is based on the results of a European Union supported project with several partners, especially IRSTEA (France) and Wageningen University (Netherlands). It can be published at the time of the second or third issue of year 2017;
- (b) Sponsored Special Issue by the Working Group on Sustainable Development of Tidal Areas (WG-SDTA): Based on selected papers from the workshops of the Working Group in 2014 and 2015. The Special Issue is expected to be published in the first part of 2017;
- (c) A Special Issue with selected papers of the 2nd World Irrigation Forum. It will most probably be Issue 66.2 or 66.3;
- (d) Sponsored Special Issue by the French National Committee (AFEID): Based on selected papers from the Regional European Conference in Montpellier (2015). The Special Issue is expected to be published in 2017

- (e) Sponsored Special Issue by the Iranian National Committee (IRNCID): Based on selected papers of the 13th International Drainage Workshop, Iran in 2017;
- (f) Sponsored special issue by the Mexican National Committee (MXCID): Based on selected papers of the Special Session during the ICID Congress in Mexico. The Special Issue is expected to be published in 2017/2018.

EB-JOUR Minutes Item 1.2: French resués

4. The Chairman informed that there had been delays in the check of the French resumes. These had been discussed between the Chairman and representatives of the AFEID. Based on this discussion, AFEID has committed to solve the problem.

EB-JOUR Minutes Item 1.3: Recognition to the reviewers

5. As customary, the Guest Editors and Reviewers of papers in 2015 have been listed and recognized in the first issue of the Journal in 2016. Further, Wiley has installed the new software PUBLONS on its website. With this software reviewers are being recognised for the review work, independent of the papers that they review. If reviewers would wish so, a certificate stating their review work for *Irrigation and Drainage* can be issued.

EB-JOUR Minutes Item 1.4: Best Paper Award 2016

6. The winner of the 'Best Paper Award 2016' was announced during the IEC Plenary meeting on 8 November 2016. The winners were : Ludivine Pradeleix, Philippe Roux, Sami Bouarfa, Bochra Jaouani, Zohra Lili-Chabaane and Veronique Bellon-Maurel from France and Tunisia for their paper titled "Environmental impacts of contrasted groundwater pumping systems assessed by life cycle assessment methodology: contribution to the water–energy nexus study". The paper was published in Vol. 64, Issue 1 in 2015. The Best Paper Award was a citation plaque along with a cash prize of either £ 250 or £ 400 – in the form of Gift Books (Wiley Publications) which the awardees will have an option to choose.

EB-JOUR Minutes Item 2: ICID Action Plan 2030: Action Points of Editorial Board

7. The Chairman had submitted the draft action plan / filled-in questionnaire and shared with the members of the EB before the meeting. The items were presented and discussed during the meeting. There was a proposal to devote one issue of IRD to the ICID Action Plan 2030 with invited papers from high level authors. This proposal was accepted. The modified input to the Action Plan 2030 is available at **Annex 1**.

8. Further, the Chairman informed that he had received very interesting comments from Prof. Daniele de Wrachien who is an Associate Editor of the Editorial Board. These had been presented in the meeting and were discussed which are available at **Annex 2**. The EB recommended that these comments be included as a preamble to the Action Plan 2030.

EB-JOUR Minutes Item 3: Experiences with reviewers

9. Prof Jiusheng Li (China), Joint Editor of the Editorial Board presented some ideas for improvement and shortening of the review process. One of the recommendations was to include the name of the Associated Editors as a footnote on the first page of a paper that S/he has handled. His recommendations were accepted by the EB during the meeting. The Chairman will make an inventory among the Associate Editors.

10. A few members of EB-JOUR have not contributed to the work of EB. The Chairman will send them a letter exploring their ability to contribute actively or whether they would like to be relieved of the membership.

EB-JOUR Minutes Item 4: Distribution of the Journal among the ICID membership

11. The members noted the information provided regarding the subscription of the Journal by the various National Committees. Under the fourth Agreement (2014-2018) with M/s Wiley-Blackwell, UK, National Committees were entitled to receive five copies of the Journal online + print and five copies as online only. After consultation with the National Committees, the list of members for distribution of IRD in 2016 to the National Committees and work body members and office bearers had been timely sent by Central Office to M/s. Wiley, with an update in June 2016. However, it is important that all National Committees submit their revised contact details, if applicable, to ICID Central Office for getting the copies of the Journal properly and timely.

12. The ICID subscription list included the new category of Direct Members and the recipients of ICID YP scholarship. The number of subscriptions for the year 2016 were 487 online only, 174 online + print and 116 'print' only, which made the overall total as 777.

EB-JOUR Minutes Item 5: Review of the membership of the Editorial Board**EB-JOUR Minutes Item 5.1: New membership**

13. The Iranian National ICID Committee of ICID (IRNCID) had nominated Dr. Poolad Karimi (Iran) as an Associate Editor. The EB recommended his nomination for acceptance during the meeting.

14. The Chairman stressed that there was a need for a few more Associate Editors. The members were encouraged to identify good potential Associate Editors for nomination by their respective National Committees. The membership status is given in **Annex 5 (page 33)**.

EB-JOUR Minutes Item 6: Issues related to M/s Wiley-Blackwell

15. The regular contacts with M/s Wiley-Blackwell had been very effective and the publisher had been very well catching up with new developments in the publishing world. Details had been given in the Chairman's report of 2015.

16. Recently, M/s Wiley has also established a direct link to the ORCID software. This software enables authors to have their papers and citations listed in the ORCID research database.

17. While the present Agreement with M/s. Wiley comes to an end by the end of 2018, the EB has to prepare for follow-up in 2017. This has been discussed in MT-JOUR as well. It was agreed to propose that we first ask M/s. Wiley for a proposal for continuation. When we are satisfied with the proposal, we will continue with M/s. Wiley. If we are not satisfied with the proposal, then we can invite other publishers for their proposal.

18. At present, the National Committees are entitled to receive 5 copies online + print and 5 copies online only. For the new Agreement, it will be proposed that NCs can choose between "5 copies online + print and 5 copies online only" and "10 copies online only". A few NCs already subscribe 10 copies online only.

19. Authors can opt for open access of their paper in the Journal. In that case the charge to the author will be US\$ 2,500.

20. There are several websites such as Researchgate.net and Academia.edu, where authors are invited to upload their papers. Because of copyright, only abstracts of papers that have been published in *Irrigation and Drainage* can be uploaded, with proper reference to the publisher. The full papers cannot be uploaded on such websites. The chairman will discuss with M/s Wiley-Blackwell as to how this can best be made clear to the authors.

EB-JOUR Minutes Item 7: Any other business

21. The meeting ended with thanks to the Chair.



Annex 1 [Appendix XXIV, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: EB-JOUR

Dated: 10 November 2016

		Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 1: Enable higher crop productivity with less water and energy			Milestone 1	Milestone 2	Milestone 3	Milestone 4	Milestone 5
	1.1 To publish high quality papers in the journal <i>Irrigation and Drainage (IRD)</i> on new developments in irrigation, drainage and flood management	About 70 papers per year published in five issues. Once in three years a special issue will be published with selected papers of the Congress and once in three years a special issue with selected papers of the World Irrigation Forum.	5 issues of IRD	5 issues of IRD	5 issues of IRD	5 issues of IRD	5 issues of IRD
	1.2 In addition to the regular issues to publish sponsored special issues on an ad hoc basis		One or two sponsored special issues	One or two sponsored special issues	One or two sponsored special issues	One or two sponsored special issues	One or two sponsored special issues
	1.3 To maintain good working relations with a professional publisher. At present John Wiley & Sons		Two working meetings	Two working meetings. Renewal of the publishing agreement, preferably with John Wiley & Sons	Two working meetings	Two working meetings	Two working meetings
	1.4 To devote one issue of IRD to the ICID Action Plan with invited papers of high level authors		Invitation of authors	Publication in one of the regular issues			
Goal 2: Be a catalyst for change in policies and practices	2.1 Improvement in the citation index (CI) and in the altmetric scorer (AC)		CI: 0.7 AC: 5%	CI: 0.7 AC: 6%	CI: 0.8 AC: 7%	CI: 0.8 AC: 8%	CI: 0.9 AC: 9%
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Number of unique visitors to IRD's pages at Wiley, by year		40,000	42,000	44,000	46,000	48,000
	3.2 Number of downloads of IRD papers, by year		25,000	26,000	27,000	28,000	30,000
	3.3 Number of institutions with access to IRD via a Wiley Licence		4,500	4,500	4,600	4,600	4,700
	3.4 Number of low-cost or free access to current content to developing world institutions		5,000	5,000	4,900	4,900	4,800
Goal 4: Enable cross disciplinary and inter-sectoral engagement	4.1 This activity is not really possible in EB-JOUR. Indirectly it can be represented in the papers submitted by specialists of various disciplines.						



Annex 2 [Appendix XXIV, Item 2]**COMMENTS PREPARED BY PROF. DANIELE DE WRACHIEN THAT ARE
RECOMMENDED BY THE MEETING TO BE INCLUDED
AS A PREAMBULE IN THE ICID ACTION PLAN**

Despite the enormous advances in our ability to understand, interpret and ultimately manage the natural world we have reached the 21st century in awesome ignorance of what is likely to unfold in terms of both the natural changes and the human activities that affect the environment and the responses of the Earth to those stimuli. One certain fact is that the planet will be subjected to pressures hitherto unprecedented in its recent evolutionary history.

The “tomorrow’s world” will not simply be an inflated version of the “today’s world”, with more people, more energy consumption, more industry, rather it will be qualitatively different from today in at least three important respects.

First, new technology will transform the relationship between man and the natural world. An example is the gradual transition from agriculture that is heavily dependent on chemicals to one that is essentially biologically intensive through the application of bio-technologies. Consequently, the release of bio-engineered organisms is likely to pose new kinds of risks if the development and use of such organisms are not carefully controlled.

Second, society will be moving beyond the era of localized environmental problems. What were once local incidents of natural resource impairment shared throughout a common watershed or basin, now involve many neighboring countries. What were once acute, short-lived episodes of reversible damage now affect many generations. What were once straightforward questions of conservation versus development now reflect more complex linkages.

The third major change refers to climate variations. It is nowadays widely accepted that the increasing concentration of the so-called greenhouse gases in the atmosphere is altering the Earth’s radiation balance and causing the temperature to rise. This process in turn provides the context for a chain of events which leads to changes in the different components of the hydrological cycle, such as evapotranspiration rate, intensity and frequency of precipitation, river flows, soil moisture and groundwater recharge. Mankind is expected to respond to these effects by taking adaptive measures including changing patterns of land use, adopting new strategies for soil and water management and looking for non-conventional water resources (e.g. saline/brackish waters, desalinated water, treated wastewater, hydroponics and aeroponics).

All these problems will become more pronounced in the years to come, as society enters an era of increasingly complex paths towards the global economy. In this context, the ICID Action Plan 2030 reviews and proposes planning principles, design criteria, operating rules, contingency plans and management policies for new infrastructures.



**Minutes of the 3rd Meeting of the
WORKING GROUP ON SUSTAINABLE DRAINAGE (WG-SDRG)**

9 November 2016, 13.30-15.00 hours (Session I)

9 November 2016, 15.30-17.00 hours (Session II)

Chiang Mai, Thailand

Strategy Theme: Scheme

Presented by the Chairman

Year of Establishment: 2013

Extended the completion of the Mandate: 2019

Mandate: (a) To promote drainage as part of integrated water resources management; and (b) To promote sustainable approaches for drainage and related projects through a balanced integration of (i) environmental, (ii) economic, and (iii) social and cultural aspects. The WG will work on – (a) Soil management and (integrated) water (resources) management; (b) Traditional and wise drainage management including (i) dry drainage and bio drainage, (ii) arid and semi-arid zones v/s rain fed zones, and (iii) controlled drainage and regulated drainage; (c) Operation and maintenance; (d) Promotion of multi-stakeholders approaches; (e) Reuse and multiple uses; (f) Promotion of risk assessment under global change, and (g) Assessment of drainage needs.

Members Present: (1) Mr. Bernard Vincent, Chairman (France); (2) Dr. Momon Sodik Imanudin, Vice Chairman (Indonesia); (3) Ms. Wang Shaoli (China); (4) Dr. Sheng-Feng Kuo representing Mr. Chen Hung-Kwai (Chinese Taipei); (5) VP Mohamed Wahba representing Dr. Ashraf El-Sayed Ismail (Egypt); (6) Mr. Mika Turunen representing Ms. Helena Aijo (Finland); (7) Dr. Gurbachan Singh (India); (8) Prof. Ir. Robiyanto Hendro Susanto (Indonesia); (9) Mr. Ardavan Azari (Iran); (10) Ir. Mohd Anuar Musardar bin Yusoff (Malaysia); (11) Dr. Irene Bondarik representing Dr. Yurii Yanko (Russia); (12) Er. H.K. Varma representing Secretary General Avinash Tyagi.

Observers: (i) President Hon. Bart Schultz (The Netherlands); (ii) Ms. Jakia Akter (Bangladesh); (iii) Dr. Mohamed Elhagarey (Egypt); (iv) Mr. Toshihiko Kuno (Japan); (v) Dr. (Ms.) Naoko Koshiyama (Japan); (vi) Dr. Katsuhiko Yoshino (Japan); (vii) Dr. Tsugihiko Watanabe (Japan); (viii) Prof. Seong Joon Kim (Korea, Rep. of); (ix) Mr. Sitha Ketpratoom (Thailand); (x) Mr. Pongsakorn Tangsiamiwanit (Thailand); (xi) Dr. (Ms.) Bilge Omar (Turkey); (xii) Mr. David Vanneck (UK).

WG-SDRG Minutes Item 1: Action taken report by the Chair

1. Chair welcomed all the members and briefed them on the various ongoing activities of the group viz. Action Plan 2030, compilation of bio-drainage document, organization of 13th IDW, etc. Chair further informed that two case studies were received viz. (a) 'Instream wetland as a potential low cost treatment technology in rural areas' - Dr. Ashraf from Egypt; (b) 'Application of land drainage model of DRAINMOD on peat land for oil palm cultivation based on land evaluation analysis' - Dr. Momon Sodik Imanudin from Indonesia. He also requested other volunteers to provide their case studies viz. (a) Ms Wang and Aijo on 'Controlled drainage'; (b) Mr Ardavan Azari on 'Bio drainage, dry drainage, bio saline agriculture'; (c) Dr. Bondarik, Dr Asraf El Sayed Ismail on 'Wetlands'; (d) Dr Bondarik on 'Innovation in Russian speaking countries'; (e) Dr Wu from China on 'Dry drainage'; and (f) Dr. Wahba on 'Controlled drainage'.

WG-SDRG Minutes Item 2: ICID Action Plan 2030 – Activities on sustainable drainage

2. During the meeting, WG Chair presented the draft Action Plan 2030 of the WG prepared by ICID Central Office in consultation with him. The Chair discussed the draft action plan and stressed the need for circulation to all members of WG for inviting their feedbacks before its finalization in March 2017. It was agreed that WG Chair would circulate the action plan to all members and coordinate and facilitate finalization of the action plan of the WG and its submission to the ICID Central Office by March 2017. *IEC decided that the inputs for AP 2030 may be submitted by WGs by 15th January 2017.*

WG-SDRG Minutes Item 3: Compilation of experiences in bio-drainage and bio-saline agriculture

3. As a part of sharing and compilation of experience in drainage, an internal workshop was organized during the Chiang Mai meeting where papers on bio-drainage, dry drainage, and controlled drainage were presented

by Mr. Mika Turunen (YP), Dr. Momon Sodik Imanudin (Indonesia), and Dr. Gurbachan Singh (India). Mr. Ardavan Azari (Iran) made two presentations about Dry Drainage and Bio Saline Agriculture during the meeting. During discussion, members expressed the view that technology is a worldwide concern even if modalities differ. After deliberation, WG agreed to compile and issue scientific paper on controlled drainage with contribution from members/ participants from China, Finland, Iran and Egypt; paper on dry drainage bio-saline agriculture with contribution from China, India and Iran and publication on bio-drainage. Chair encouraged other members to make a presentation at the next meeting in 2017.

4. Dr Gurbachan Singh informed that he had finalised draft document titled “Bio-drainage for Management of Waterlogging and Soil Salinity” incorporating suggestions/ observations received from members. Chair requested all the members to provide their comments as well as case studies from their countries, if any for its inclusion in the draft document by Jan 2017 so that document can be finalised and e-publication uploaded on WG website for wider dissemination.

WG-SDRG Minutes Item 4: Updating database on ‘Drained area in the world’

5. During the meeting, the Chair noted the continued efforts of ICID Central office in updation of the database on drained area. Chair informed that he has not received any feedback from members and requested members to provide latest information in respect of their countries every year by filing the ICID datasheet (*refer Annex 2, page 223 of 67th IEC Agenda*).

WG-SDRG Minutes Item 5: Updating Multilingual Technical Dictionary (MTD)

6. The group discussed the matter and issues related to updation of MTD during the meeting. Members shown keen interest in updating the MTD however, no person could be nominated to take up responsibility to facilitate review of the terms related to the activities of the group. WG agreed to discuss this issue in its next meeting. WG Chair requested members to undertake the review of the concerned terms depending on their domain of expertise and suggest changes / modification and addition of new terms, if any along with contributing pictures, links and videos related to respective term.

WG-SDRG Minutes Item 6: Updates on the 13th International Drainage Workshop, 4-7 March 2017, Ahwaz, Iran

7. WG Chair invited representative from Iran to provide updates on the 13th International Drainage Workshop (IDW). Mr. Ardavan Azari (Iran) on behalf of IRNCID provided brief updates on the organization of 13th IDW on the theme “Drainage and Environmental Sustainability” from 4-7 March 2017 at Ahwaz City. Mr. Azari informed that 5 keynote addresses have been planned and so far 105 papers from 22 countries have been received which are under review and acceptance of paper will be notified in January 2017. Chair encouraged all members to actively contribute and participate in the workshop.

WG-SDRG Minutes Item 7: Dissemination of activities of WG – Website of the group

8. This item could not be discussed in detail due to paucity of time and WG agreed to discuss this in proposed virtual meeting in March 2017. However, WG Chair requested and encouraged members to access the WG webpage and provide their comments/ suggestions for further improvement and also share relevant information/ documents/ reports/ articles etc. for uploading on website.

WG-SDRG Minutes Item 8: Review of the membership of the working group

9. The WG reviewed all the new nominations received from the National Committees for the membership of the group and accepted Prof. Seong Joon Kim (Korea, Rep. of), Dr. (Ms.) Naoko Koshiyama (Japan) and Dr. (Ms.) Bilge Omar (Turkey) as members and Prof. Aidan Senzanje (South Africa), Mr. Raed Abbood Awad (Iraq) and Mr. Amjed Mohammed Abbas (Iraq-*Young Professional*) as provisional members until the nominee attend the meetings or else contribute to the activities of the working group through email/ video conference meeting. Membership status is given in **Annex 5 (page 33)**. The group requested ICID Central Office to follow up with the Nepal National Committee (NENCID) and Pakistan National Committee (PANCID) for a fresh nomination in place of Mr. Krishna Prasad Rijal and Dr. M.N. Bhutta, respectively.

10. Since WG was not having any Secretary, Dr. Momon Sodik Imanudin, Vice Chairman of WG (Indonesia) agreed to act as Secretary for one year when regular Secretary would be elected by the WG.

WG-SDRG Minutes Item 9: Any other business

11. During discussion in PCTA some of the participants were of the view that the acronym of the group i.e. 'WG-SDG' is misleading and gives the impression that it deals with Sustainable Development Goals (known popularly as SDG) and this needs to be changed. After discussion, PCTA recommended that the acronym WG-SDRG may be used instead of SDG.

Webinar/ web-based seminar

12. WG could not discuss this item due to paucity of time and agreed that this issue will be reviewed during next meeting of the WG.



**Minutes of the 2nd Meeting of
WORKING GROUP ON INSTITUTIONAL ASPECTS OF IRRIGATION/ DRAINAGE
SYSTEM MANAGEMENT (WG-IOA)**

9 November 2016, 13.30-15.00 hours (Session I)
9 November 2016, 15.30-17.00 hours (Session II)
Chiang Mai, Thailand

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2021

Scope: The WG will investigate, analyse and disseminate information and knowledge on following issues: (1) Legal Framework and Organizational Structures of Water User Association for Water Supply Services including- (a) institutional and organisational requirements for sustainable operation and maintenance of irrigation/drainage systems, (b) improvement of organisational arrangements for management, operation and maintenance of irrigation/drainage systems, (c) financing of operation and maintenance of irrigation/drainage schemes, (d) approaches and requirements for water regulatory authorities, land property questions, water rights, and (e) roles, responsibilities and requirements for sustainable Water Users Associations (WUA); (2) Participatory Irrigation Management and Irrigation Management Transfer covering (a) approaches and conditions for successful Participatory Irrigation/Drainage Management (PIDM), and (b) approaches and conditions for successful irrigation/drainage management transfers (IDMT), including legislation and institutional requirements for transfer of responsibilities and/or ownership of irrigation and drainage systems to water users associations; and (3) Public Private Partnership, and Mechanism for Cost Recovery covering (a) possibilities of and requirements for successful Public Private Partnerships (PPP) in irrigation/drainage, and (b) methods and mechanisms for charging of irrigation/drainage services and determination of level of cost recovery.

Members Present: (1) Vice President Hon. Hafied A. Gany, Chairman (Indonesia); (2) Dr. Kazumi Yamaoka, Vice Chairman (Japan); (3) Mr. Madhav Belbase, Secretary (Nepal); (4) Dr. Seong Joon Kim (Korea, Rep. of); (5) Mr. Philip J. Riddell (UK); (6) Vice President Hon. Franklin Dimick (USA); (7) Secretary General Avinash C. Tyagi.

Observers: (i) President Dr. Saeed Nairizi (Iran); (ii) Vice President Bong Hoon Lee (Korea, Rep. of); (iii) Mohammad Asif Wafa (Afghanistan); (iv) Mr. Clarke Ballard (Australia); (v) Dr. Yu-Chuan Chang (Chinese Taipei); (vi) Pei Chin Ni (Chinese Taipei); (vii) Yu-Chuan Chang (Chinese Taipei); (viii) Ching-Tien Chen (Chinese Taipei); (ix) Ms. Adey Mersha (Ethiopia); (x) Dr. Sándor Szalai (Hungary); (xi) Dr. P.S. Rao (India); (xii) Dr. Ismail Widadi (Indonesia); (xiii) Houshang Hasouni Zadeh (Iran) represented by Nargesh Zohrabi; (xiv) Seung Won Lee (Korea, Rep. of); (xv) Mr Suman Sijapati (Nepal); (xvi) Mr. Bashu Dev Lohani (Nepal); (xvii) Siripong Hungspreug (Thailand).

WG-IOA Minutes Item 1: Action taken report by Chair

1. As per discussions during the Montpellier meeting, the Chairman had encouraged all members to make use of video conferencing facilities provided by the Central Office for monitoring the actions taken on the decision of the WG, which also provide opportunity to the members who were unable to attend the meeting physically. WG Chair requested members to take active part in the virtual meetings as and when these are organized by the WG. Effort will be continued to encourage the members to use such facilities.

WG-IOA Minutes Item 2: ICID Action Plan 2030 – Activities on institutional and organizational aspects of irrigation

2. Initially, the overall work plan of the WG was set up for six years period starting from 2015 to 2021. This include creation of Share Folder for communication and dissemination of information and document, but the actual condition is only possible for some members to access the 'Share folder'.

3. The WG Chair had communicated to all members of the WG in January 2016 for implementation of three-years short-term program through the establishment of 'Share folder' but it seems that further effort need to be taken to strengthen the use of share folders for implementing the process of the short term (three-years) program.

4. The Working Group set up a work plan vision as follows - "Development of sustainable role of Irrigation and Drainage Operation and Management through effective and efficient institutional and organization integrated working support toward 2030". The Working Group discussed and made additional improvement to the draft action plan that was initially prepared by the Central Office to finalize the long term action plan of the WG. Updated Action plan is at **Annex**.

WG-IOA Minutes Item 3: Presentation by the working group members

5. For intensifying the exchange of information that was uploaded through the share folder, the WG Chairman presented the working paper titled “Historical, present condition and future outlook of institution and organization of irrigation development and management in Indonesia”. This paper provides information about historical background and underlying issues on institutional and organizational matters in Indonesia for comparison with the IOA in respective areas and regions. In addition to the presentation of Chairman, other presentations were made by Mr Madhav Belbase (Nepal) titled “Irrigation Institution Reform – a Future Course in Nepal”, and Dr Kazumi Yamaoka titled “Importance of Institution and Organization for Sustaining Irrigation and Drainage System Management in the Future - Lesson Learned from Practice in Japan”.

WG-IOA Minutes Item 4: Dissemination of activities of WG – Website of the group

6. Following the suggestion indicated at the Montpellier meeting, the WG members were requested to provide information, papers, presentation related to the scope of the WG, and the Central Office would upload to the website of the Working Group at - http://www.icid.org/wg_ioa.html.

7. Members were again requested for their active participation in the activities of the WG through facilitation of exchange of information as well as networking on the topic and make full use of the ‘share folder’ that was created by the chairman of the working group in order to keep themselves up-to-date with the new development.

WG-IOA Minutes Item 5: Updating Multilingual Technical Dictionary (MTD)

8. The WG discussed the matter of updation of MTD and set a program to review and update the terms that fall within the responsibility of the Working Group. For this purpose, Dr Yu-Chuang Chang (Chinese Taipei) was provisionally nominated as a nodal person to undertake this task and to be member of the TF proposed to be setup by PCTA for updation of MTD.

9. Chair requested feedback from each member in accordance with their activities of the WG by reviewing the concerned term depending upon the domain of their expertise related to the respective terms including new terms, pictures, links and videos.

WG-IOA Minutes Item 6: Review of membership of the working group

10. The Working Group reviewed membership of the WG and unanimously decided to approve the nomination of Dr. Yu-Chuan Chang (Chinese Taipei) as the member of Working Group, and Dr Chang expressed his willingness to work for the working Group in accordance with his expertise. In addition, the nomination of Houshang Hasouni Zadeh received from the Iranian National Committee (IRNCID) was approved as ‘Provisional Member’ because the nominee was not present in the meeting, but only represented by Narges Zohrabi (Iran).

11. The Iraqi National Committee (IRQCID) has nominated Mr. Ghassan Lutfi Ahmed and Eng. (Ms.) Hend Emad Abd-Alrahman Alhendy (*Young Professional*) for the membership of the group. Both the nominees were admitted as ‘Provisional Member’ until the nominee attend the meetings or else contribute to the activities of the working group through email/ video conference meeting. Membership status is given in **Annex 5 (page 33)**.

WG-IOA Minutes Item 7: Symposium during 23rd Congress in Mexico, 2017

12. To support the short term working program of the WG, an IOA Symposium is proposed to be held in Mexico City during the 68th IEC meeting and 23rd Congress of ICID in October 2017. The symposium will present only invited country papers for limiting the too wide scope of symposium material. The draft of the proposed symposium topic would be as follows:

- (a) **Theme:** Global Review of Institutional Reform in Irrigation Sector for Sustainable Agriculture Water Management, including WUA;
- (b) **Topic – 1:** Legal Framework and organizational structure including WUA for Water Supply Services;
- (c) **Topic – 2:** Participatory Irrigation Management and Management Transfer -- Approaches and condition for successful PIDM;
- (d) **Topic – 3:** Public – Private – Partnership (PPPs) in Irrigation and drainage operation and maintenance toward sustainable Irrigated agricultural water management.

13. Scope of the proposed country papers would be :

- (a) **Target Group:** Managers of Irrigation Schemes;
- (b) **Legal Frameworks:** (Institutional and organizational aspects of Irrigation and Drainage O&M; Approaches, Land and Water Problems; Role and Responsibilities; Sustainable IOA);
- (c) **PIM and Irrigation Management Transfer:** (Approaches of I&D Transfer; Transfer of Ownership; Water Allocation, accounting and Auditing; Condition for Successful PIDM);
- (d) **Public Private Partnership:** (Charging mechanism for cost recovery; Possibility of successful PPP; Method and mechanism for determination of cost recovery).

WG-IOA Minutes Item 8: Any other business

Webinar/ web-based seminar

17. WG supported suggestion of organizing webinars which will promote sharing of vast expertise available with ICID fraternity with members of the NCs. WG Chair requested members to provide their suggestions on the topics, based on the mandate of the WG, on which webinar can be considered along with name of the relevant experts who could be contacted to develop webinars.



Annex [Appendix XXVI, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: VPH Dr. Hafied Gany (Chair), Dr. Kazumi Yamaoka (Vice Chair), Mr. Madhav Belbase (Secretary)

Date: November 2016

		Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 2: Be a catalyst for change in policies and practices	2.1 Report, manuals, guidelines	Report	Prepare the first draft report	Release the second draft report	Finalise the draft report & publication		Review of report
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Organize Workshop, Seminar and Symposium	Compilation of proceedings	Symposium	Symposium	Symposium	Symposium	
	3.2 Condensed overview of existing key books, manuals, guidelines and other relevant publications on the topic	Synopsis		Release the first overview		Release the second overview	Release of third overview
	3.3 Overview paper on the state of the art on the topic for publication in Irrigation and Drainage (IRD)	Paper		Preparation of the draft of first paper	Submission of first paper for IRD	Preparation of the draft of second paper	Submission of second paper for IRD
	3.4 Exchange of information, books and case studies on institutional and organizational	Case studies	Exchange of information		Exchange of information		Exchange of information



**Minutes of the 2nd Meeting of the
WORKING GROUP ON MODERNIZATION AND REVITALIZATION OF
IRRIGATION SCHEMES (WG-M&R)**

9 November 2016, 13.30-15.00 hours (Session I)

9 November 2016, 15.30-17.00 hours (Session II)

Chiang Mai, Thailand

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2021

Scope of work: To investigate, analyse, disseminate information on new developments and to formulate recommendations with respect to: Planning and preparation for modernization and revitalization of irrigation schemes; Interaction between modernization, revitalization and required operation and maintenance; Cost sharing for modernization, revitalization and required operation and maintenance; Institutional and organizational framework required for modernization, revitalization and operation and maintenance; Methods and techniques of lining of conveyance and distribution canals; Canal control systems with respect to their automation, using internet, mobile communication and remote monitoring in canal operation; Modification to improve communication, operational capacities and flexibility in operation and maintenance of systems; Standardization and codes of practice in irrigation systems.

Members Present: (1) Vice President Ian Makin, Chairman (UK); (2) Dr. Dong Bin, Vice Chairman (China); (3) Ir. Eko Subekti (Indonesia); (4) Dr. Yohei Sato (Japan); (5) Dr. Kwang-Sik Yoon (Korea, Rep. of); (6) Dr. Brian T. Wahlin (USA); and (7) Mr. Harish K. Varma representing Secretary General Avinash Tyagi.

Permanent Observers: (i) Ms. Robina Wahaj, FAO.

Observers: (i) Mr. Chih-Hung Tan (Chinese Taipei); (ii) Mr. Anuj Kanwal (India); (iii) Dr. Alok Sikka (IWMI-India); (iv) Mr. Mochammad Amron (Indonesia); (v) Mr. Ismail Widadi (Indonesia); (vi) Mr. Adang Saf Ahmad (Indonesia); (vii) Mr. Soekrasno (Indonesia); (viii) Mr. Bistok Simauvaiah (Indonesia); (ix) Ms. Jyotsana Chuchra (Indonesia); (x) Mr. Nita Yulianti (Indonesia); (xi) Mr. Masao Miyazaki (Japan); (xii) Mr. Katsuhiko Yoshino (Japan); (xiii) Mr. Nikkun Nikman (Malaysia); (xiv) Mr. Jan Potgiet (South Africa); (xv) Mr. Panjasak Thepuayporn (Thailand).

WG-M&R Minutes Item 1: Action taken report by Chair

1. Chair welcomed members to the meeting of the WG and informed them about the establishment of the website of WG-M&R wherein scoping document, agenda, minutes, membership, events etc. were posted besides contact information of the Chair, Vice Chair and Secretary. Members were urged to provide information, reference material on modernization to populate the website. Chair informed that the main activity of the group in the year was to prepare: (i) a working definition of modernization; (ii) an outline case study template in consultation with Central Office; and (iii) organization of the workshop/ side event on 9 November during WIF2 (*refer item 4*).

WG-M&R Minutes Item 2: ICID Action Plan 2030 – Activities on modernization and revitalization

2. During the meeting, WG Chair presented the draft Action Plan 2030 of the WG prepared by ICID Central Office in consultation with him. Members reviewed and updated the Action Plan 2030 (AP-2030) to reflect the proposed work plan of the group (**Annex**). After discussion, the group agreed specifically to:

- (a) Definition of irrigation modernization for review and adoption in Mexico Congress (2017)
- (b) Preparation of a position paper on key issues of modernization for the WWF8 (2018)
- (c) Preparation of case studies as a foundation for State of the Art review paper to be presented in Mexico congress (2017)
- (d) Organization of workshops and papers at forthcoming ICID events.

WG-M&R Minutes Item 3: Report on Modernization irrigation/ drainage for a new Green Revolution

3. WG Chair informed the members that the WG is tasked with preparation of document on state-of-the-art review of modernization for publication at the Mexico Congress (2017). Chair further informed that the Side Event held in November 2016 during WIF2 initiated the process of collecting case studies that will be the basis for this review and a template for this purpose would be developed and shared with WG-M&R members. WG Chair informed that PH Prof. Bart Schultz would be requested to provide the Report of WWF 6&7 and other materials which contain relevant

reference material for development of the review and also as a foundation for the preparation of a Position Paper for WWF 8 in Brasilia (2018).

WG-M&R Minutes Item 4: Outcome of the side event on ‘New Developments in Irrigation and Modernization’, November 2016, Chiang Mai

4. Chair provided a brief overview of the proceedings and discussions of Side Event held on 8 November 2016 wherein about 50 participants participated and 5 presentations covering different views of modernization from: (i) a consultant involved in design of modernization investments; (ii) a government implementing a modernization program; and (c) two multilateral financing organizations (ADB and World Bank) were made. After deliberation, the participants developed the working definition of modernization, as follows, and suggested ICID to consider and accept this as a common definition of modernization:

“Modernization is the process of upgrading infrastructure, operations and management of irrigation systems to sustain the water delivery service requirements of farmers and optimize production and water productivity”.

5. The WG discussed the definition and decided to solicit comments on the definition from members towards its finalization and will provide final definition to the ICID Central Office for distribution to the national committees. Chair further informed that the key messages from the side event include;

- (a) It is essential that all actions in modernization need to consider how current actions will meet the predicted requirements in 2030 as the design, implementation and impact of interventions will likely take over 10 years to be fully effective.
- (b) The participants emphasized the need to differentiate between modernization of irrigation and drainage systems that provide services for paddy from those that are designed for other crops.
- (c) Participants noted the need that any recommendations or guidelines that are proposed must be adapted to the needs of individual countries – one-size does not fit all.
- (d) Participants felt that a volume of well documented case studies may be of more value than a set of guidelines.

WG-M&R Minutes Item 5: Preparation of a paper on the status of modernization in countries around the world

6. During the meeting, the group discussed the broad outline for preparation of case studies/ country papers in respect of modernization and revitalization of irrigation system. After discussions, it resulted in agreement to follow-up actions leading to preparation of a publication on the status of modernization in countries around the world. Some of the agreed action points are as follows:

- (a) Members from the following 7 countries viz. China, India, Korea, Japan, Philippines, Indonesia and USA will provide country papers/ case studies on irrigation modernization from their own countries. FAO and IWMI Observers indicated that they would seek supporting documents from their organizations.
- (b) To increase the participation, Young Professionals and the YP network will be invited to participate in the review team for the publication, in addition, inviting their participation in preparation of case studies.
- (c) The draft definition of modernization was circulated to interested participants for their review and comments.
- (d) The case study template will be circulated to interested participants. The WG-M&R will follow-up with the representatives offering case studies to assist in the preparation of reports of the WG for the 2017 Mexico Congress.

WG-M&R Minutes Item 6: Exchange of information, knowledge & networking - website

7. Chair informed the members on the establishment of WG-M&R webpages, including the initial set-up of an on-line discussion forum. He felt that further work will be required to make the forum a secure system for exchange of views. However, an alternative would be to utilize an external discussion forum system, possibly such as those used by the YP-network. WG agreed to the following suggestions/views expressed by the participants:

- (a) Irrigation modernization has different meanings to different countries. The information and knowledge exchange is very important.
- (b) Put the country papers/ case studies/ country guidelines on the website and make them available through the website
- (c) Hold virtual meeting: identify 1-2 topics for discussion
- (d) Encourage and promote information exchange and sharing with other WGs

WG-M&R Minutes Item 7: Updating Multilingual Technical Dictionary (MTD)

8. During the meeting, the group discussed the updating MTD and it was agreed that the WG-M&R members would review the existing dictionary to consider whether additional terms are required to be included to cover modernization and revitalization issues. In addition, the membership will consider whether the current translations are adequate or require revisions. The representatives from Indonesia National Committee noted they had reviewed the 2010 version of MTD and encouraged other members to review the MTD further.

WG-M&R Minutes Item 8: Review of membership of the working group

9. During the meeting, the group reviewed the membership of the WG and unanimously decided to approve the nomination of Mr. Usman-e-Ghani (Pakistan) nominated by PANCID, Mr. Ali Omran Ali and Mr. Firas Husain Ali (*Young Professional*) nominated by IRQCID as Provisional Members since they did not attend the meeting. Membership status is given in **Annex 5 (page 33)**. The Chair requested Central Office to contact them to seek their contribution to the activities of the working group through email/ video conference meeting before face to face meeting of the WG in Mexico in 2017. .

10. After discussion, members requested clarification on whether it is essential to be present at the meetings to be considered as an active member. Chair informed that those members who were unable to attend the meeting physically but made contributions through emails, virtual meetings, etc. will continue to be regular member of the WG.

WG-M&R Minutes Item 9: Any other business**Webinar/ web-based seminar**

11. WG supported suggestion of organizing webinars which will promote sharing of vast expertise available with ICID fraternity with Members of the NCs. WG Chair requested members to provide their suggestions on the topics, based on the mandate of the WG, on which webinar can be considered along with name of the relevant experts who could be contacted to develop webinars. WG agreed to discuss this issue during the first virtual meeting of the WG tentatively planned in early 2017.



Annex [Appendix XXVII, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: VP Ian Makin (Chair), Dr. Dong Bin (Vice Chair), Engr. Muhammad Sani Bala (Secretary)

Date: November 2016

		Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 2: Be a catalyst for change in policies and practices	2.1 Prepare position Paper on Key Issues on Modernization of Irrigation Schemes	A Position/Policy Paper of ICID		Release at WWF8 in Brasilia			
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Organize Workshops, Seminar and Symposium	Compilation of proceedings	Main Theme of Congress, Inputs to Congress				
Goal 5: Encourage research and support development of tools to extend innovation into field practices	5.1 Preparation and presentation of Case studies	Compilation of Case Studies	6 Case Studies	TBD Case Studies	TBD Case Studies	TBD Case Studies	
	5.2 Prepare an overview paper on State of the Art on Modernization of Irrigation Systems	State of the Art Paper	State of the Art Paper Released				
Goal 6: Facilitate capacity development	6.1 Condensed overview of Key books, manuals and Guidelines	Book Overview					
	6.2 Develop Guidelines for Modernization of Irrigation systems	Guidelines (This to be reviewed and possibly revised in Mexico 2017)			Release Guidelines in WIF3		



**Minutes of the 1st Meeting of
WORKING GROUP ON WATER SAVING IN IRRIGATED AREAS (WG-WATS)**

9 November 2016, 13.30-15.00 hours (Session I)

9 November 2016, 15.30-17.00 hours (Session II)

Chiang Mai, Thailand

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2021

Scope: (a) water accounting and irrigation auditing (and other ancillary uses); (b) irrigation water measuring devices; (c) assessment of water loss in various components of irrigation systems; (d) various methods and techniques used for water saving in irrigation; (e) policies and strategies for irrigation water saving; (f) charging for Irrigation Services; (g) success stories and best management practices in water saving; (h) tools and processes applied in irrigation water saving; (i) outreach of water saving technologies; and (j) WatSave Awards.

Members Present: (1) Mr. Mehrzad Ehsani, Chairman (Iran); (2) Vice President Hon. Adama Sangare, Vice Chairman (Mali); (3) Ms. Jianxin Mu (China); (4) Dr. P. Soman – Direct Member, JISL (India); (5) Mr. Mortaza Yazdekhesti – as Young Professional (Iran); (6) Prof. (Ms.) Kyung-Sook Choi (Korea, Rep. of); (7) Vice President Hon. Gerhard Backeberg represented Dr. Joe Stevens (South Africa); (8) Dr. Hassan Aboalbasher Ali (Sudan); and (9) Secretary General Avinash Tyagi.

Observers: (i) President Hon. Gao Zhanyi (China); (ii) Vice President (Ms.) Charlotte de Fraiture (Netherlands); (iii) Ms. Kathleen Heuvel (Australia); (iv) Mr. Stephen Mills (Australia); (v) Dr. Jiusheng Li (China); (vi) Dr. Ismail Widadi (Indonesia); (vii) Mr. Omid Moridnejad (Iran); (viii) Dr. Mu Zhan (Myanmar); (ix) Va-San Boonikird (Thailand); (x) Dr. Watchara Suiadee (Thailand); (xi) Mr. Kanehadin Srpratoon (Thailand); (xii) Mr. Roekrat Panomkwan (Thailand); (xiii) Mr. Nitivat Voraditee (Thailand); (xiv) Mr. Pongsakorn Tangsiamwanif (Thailand); and (xv) Mr. Derek Heeren (USA).

WG-WATS Minutes Item 1: Introduction of the new working group

1. The Chair welcomed all the members to the first meeting of the WG and briefed them about the scoping document, objectives, work plan and the mandate of the group which was approved by PCTA. During the meeting, the summary of the scope and work plan was presented by chair.

WG-WATS Minutes Item 2: ICID Action Plan 2030 – Activities on water saving in irrigated areas

2. Members reviewed the activities of the WG listed in the Action Plan 2030. The six Goals of ICID Vision 2030 and WGs activities related to these goals and milestone activities were briefly discussed and some initial ideas for actions and deliverables, as agreed during the meeting, are as follows:

- (a) **Activity 2.1 - Technical Book on Policy and Legal Approaches to Water Saving:** In fact all the countries have their own law and regulation to prevent water losses and encourage water savings in agriculture. WG agreed to identify, collect, review and analyze the appropriate law and regulation of countries in order to provide a handbook on the topic above. Ms. Jianxin Mu (China) agreed to develop questionnaire to collect the information from the NCs for preparing the first draft of a unique framework and template including topics and subtopics. Questionnaire after discussion and approval by the WG members will then be sent to NCs to prepare the reports. The first draft of the questionnaire will be ready within one-month i.e. by end of December 2016.
- (b) **Activity 2.2 - Technical Book on Water Charging Policies:** Having to pay for irrigation water encourages water-saving behavior, thus promoting water conservation. Appropriate charging for irrigation water can be efficient tool for self-controlling of water saving. WG agreed to start preparing a technical book on water charging polices and mechanism to collect water charges. WG Chair volunteered to make the first draft of framework and template for collecting the required information and sending it to NC within next 2 months. The framework would be sent to WG members to get their viewpoint and approval before sending to NCs.
- (c) **Activity 3.1 - Seminar on Best Practices and Successful Story on Water Saving:** It was noted that there are many successful practices and research findings, strong works and non-conventional pathways of achieving water saving in irrigation. The WG agreed to provide an opportunity by organizing a Seminar / Symposium on 'Water Saving' to explore all those innovations and success story and share with professional experts and policy makers. Dr. P. Soman (India) volunteered to set-up/ prepare a call for papers and propose the sub-themes of the seminar to be organized in the

upcoming ICID event within next 2 months. After finalizing the call for papers by WG, the Chair will consult with ICID central office for coordination of organizing the seminar during the next ICID meeting in Mexico in 2017.

- (d) **Activity 3.2 - Overview paper on the state of the art on water saving:** Approaches to water saving may choose from several technologies, methods, and polices to achieve them with best practices in the field. To highlight the most recent researches and newest ideas on the scope of this working group, members agreed to overview paper on the state of the art on the aspects of management, technology, technique and policies for water saving in irrigated areas. The paper will be submitted for publishing in ICID Journal on Irrigation and Drainage. Dr. Gerhard R. Backeberg (South Africa) representing Dr. Joe Stevens accepted the responsibility and informed that he will request Dr. Joe Stevens to undertake this task.
- (e) **Activity 3.3 - Overview of existing key books, manuals, guidelines and other relevant publications on water saving:** The topic on overview of existing key books, manuals, guidelines etc. on water saving was discussed in the meeting and Mr. Mortaza Yazdekhasti (Iran) agreed to take up the task with the cooperation of other working group members by emailing any articles and books which are new in this area of knowledge. He will present the overview in next meeting and deliver the whole summarized overview on a pen drive.

3. The group discussed and finalized the draft action plan and submitted its input to PCTA for inclusion in the ICID Action Plan for Vision 2030 (**Annex**).

WG-WATS Minutes Item 3: Presentation by the WatSave Award winner(s)

4. The group noted that 13 nominations were received for four categories of 2016 WatSave Awards viz. technology, management, young professional and farmer. According to decision made in Montpellier meeting 2015, ICID Central Office had invited the WatSave award winners to attend the working group meeting and share their experience and present their respective works in the internal workshop of the WG. Out of four WatSave award winners, two winners viz. from China and Thailand took part in the meeting and presented their respective works viz. (a) "Innovation and extension of sprinkler and micro irrigation technologies in China" by Dr. Jiusheng Li from China; and (b) "Innovation implementation and extension of the water saving integrated smart farming AWDI technique in Thailand" by INWEPF-Thai Committee.

WG-WATS Minutes Item 4: Dissemination of activities of WG – Website of the group

5. The group discussed about the updation of the website of the working group during the meeting. As the website of the working group was not updated during last year, the chair will contact the ICID Central Office and request to update it based on the new mandate, members and agenda. WG Chair also requested all members to provide information, papers, presentation made on topics related to scope of work of the WG to the ICID Central Office for uploading on the web site of the WG.

WG-WATS Minutes Item 5: Updating Multilingual Technical Dictionary (MTD)

6. The reviewing and updating the existing MTD was discussed in the WG. It was agreed that the WG members would review the terms in the existing dictionary to consider whether additional terms are require to be included to cover water saving in irrigated area issues. In addition, the members also agreed to review whether the current translations are adequate or require revisions. Ms. Kyung Sook Choi (Korea) agreed to review the MTD, as well as gather other working group member's to review and complete the task in one year.

WG-WATS Minutes Item 6: Review of membership of the working group

7. The group discussed the new nominations received from the National Committees/ Direct Members for the membership of the group. Membership status is given in **Annex 5 (page 33)**. The following nominations were accepted by the group:

S. No.	Members	Country	Accepted/ Provisionally admitted
1	Dr. Joe Stevens	South Africa	Accepted
2	Dr. P. Soman, Direct Member, JISL	India	Accepted
3	Mr. Mortaza Yazdekhasti (Young Professional)	Iran	Accepted
4	Ms. Jianxin Mu ¹	China	Accepted

¹ (Ms. Jianxin Mu official letter of Introduction received by ICID Central Office)

8. The group reviewed the membership of Eng. S. Mohanarajah (Sri Lanka) and Mr. Abijit Joshi, Director Member, JISL (India) and recommended to follow-up with the NC/ JISL before discontinuation of their membership. Among the nominated persons, six did not attend and even not represented at the meeting and therefore recommended as follows:

Sl. No.	Members	Country	Recommendation
1.	Mr. Kamal Kumar Jangid	India	Provisional member
2.	Mr. Yalçin Dalgin	Turkey	Provisional Member
3.	Mr. Dhuha Mahmood Hussein and	Iraq	Provisional Member
4.	Mr. Mohammed Alaa Dheyaa (Young Professional)	Iraq	Provisional Member
5.	Mr. S.P. Jadhav – Direct Member, JISL	India	Observer

WG-WATS Minutes Item 7: Election of Secretary

9. The group discussed and elected Mr. Mortaza Yazdkhasti (Iran) as new Secretary of the group.

WG-WATS Minutes Item 8: Any other business

10. The 66th IEC meeting held at Montpellier in October 2015 approved the concept of Technical Support Unit (TSU) with an overall objective to “Undertake capacity development activities in the field of agriculture water management (AWM) in support of rural development”. To benefit this opportunity to support activities and programs in the scope of water saving in irrigated areas as well as organizing training for managers to support adoption of available technologies to save more water, the chair requested the working group members who are interested and capable to support this part in different countries to come forward to take up this assignment, else the working group members may introduce the ones who are capable and willing for the assignment through their national committees.

Webinar/ web-based seminar

11. WG supported suggestion of organizing webinars which will promote sharing of vast expertise available with ICID fraternity with Members of the NCs. WG Chair requested members to provide their suggestions on the topics, based on the mandate of the WG, on which webinar can be considered along with name of the relevant experts who could be contacted to develop webinars.



Annex [Appendix XXVIII, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: Mr. Mehrzad Ehsani (Chair) and VPH Adama Sangare (Vice Chair)

Date: November 2016

		Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 1: Be a catalyst for change in policies and practices	1.1 Policy and legal approaches to Water Saving	Policies/ Document	Breakdown the works in the WG	-Workshop -Designing and preparing questionnaire to collect data	Collecting and reviewing relevant laws and regulations from NC	Providing first draft	Finalize the book on policies and strategies drives on water saving
	1.2 Water Charging policies	Report	Define responsibility in WG	Designing Standard questionnaire	Reviewing Water Charging procedure on NC	Providing first report	Final Report
Goal 2: Facilitate exchange of information, knowledge and technology	2.1 Organize Workshop, Seminar and Symposium	Compilation of proceedings	Seminar/ Symposium on Water Saving	Workshop			Workshop
	2.2 Overview paper on the state of the art on water saving for publication in Irrigation and Drainage (IRD)	Paper		Preparation of the draft of first paper	Submission of first paper for IRD	Preparation of the draft of second paper	Submission of second paper for IRD
	2.3 Condensed overview of existing key books, manuals, guidelines and other relevant publications on water saving	Synopsis		Release the first overview		Release the second overview	Release of third overview
	2.4 Best Practices and Successful Story on Water Saving	Documents	Workshop on Watsave awards	Announcing annually for watsave awards and selecting successful stories	Announcing annually for watsave awards and selecting successful stories	Announcing annually for watsave awards and selecting successful stories	Setting up 10 years respective work as the documents and release by CO (2010 - 2020)
Goal 5: Encourage research and support development of tools to extend innovation into field practices	5.1 Support Watsave award winner selection	Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards
Goal 6: Facilitate capacity development	6.1 Training of managers to support adoption of available technologies	Training	Introducing Capable Experts	YPF Training	Organize training	YPF Training	Organize training



**Minutes of the 1st Meeting of the
WORKING GROUP ON IRRIGATION DEVELOPMENT AND MANAGEMENT (WG-IDM)**

9 November 2016, 13.30-15.00 hours (Session I)
9 November 2016, 15.30-17.00 hours (Session II)
Chiang Mai, Thailand

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2021

Scope: (a) assessment of consumptive use of water for irrigation and resulting water balance at system level; (b) water demand management; (c) assessment of water loss in various components of irrigation systems; (d) appraisal of non-consumptive use of water; (e) water measuring methods and devices and relevant technology; (f) drivers and resistances to improve water management at system level; (g) social issues to be considered along with technical and economical ones; (h) management of multi-use hydraulic systems; (i) technical performance evaluation of irrigation schemes and benchmarking; (j) ways towards **economic** performance enhancement (cost reduction and efficiency improvement).

Members Present: (1) Vice President Hon. François Brelle (France); (2) Ms Mary Jean M. Gabriel (South Africa); (3) Dr. Wu Jingwei (China); (4) Mr. Ming-Young Jan (Chinese Taipei); (5) Dr. Narges Zohrabi (Iran); and (6) Mr. Ahmet Şeren (Turkey).

WG-IDM Minutes Item 1: Establishment of the new working group – Designation of new chair

1. WG Chair welcomed the members and informed the group that since the last informal meeting held in Montpellier in October 2015, not much has been done except amendment to the mandate and modification of the scoping document taking into account the numerous observations made by the members at Montpellier meeting. The revised scoping document was circulated to the members of the WG in October 2016.

WG-IDM Minutes Item 2: Approval of IDM Scoping Document

2. The group agreed that the WG need to focus on the approach of water balance in irrigation, with the objective to develop appropriate guidelines in this respect. As a second step, the WG aim should be to address the issues and challenge related to ensuring success of relevant and efficient water management in irrigation on a system level (i.e. drivers and resistances, social issues, management of multi-use systems, technical and economical performance). Dr. Wu Jingwei (China) suggested that there is a need for the WG to propose solutions to governments. The group agreed, but insisted on the necessary clarifications within ICID with regards to the water accounting principle, the methods and tools prior to addressing the governance issues and formulating the recommendations in this respect. The new Scoping Document approved by the WG is given as **Annex 1**.

3. Some members were of the view that name of the WG should be changed to 'IMD' from "IDM" keeping in view the focus of the WG on Water Management for Irrigation, however, no decision was made in this respect.

WG-IDM Minutes Item 3: ICID Action Plan 2030 – Activities on irrigation development and management

4. During the meeting, WG Chair presented the draft Action Plan 2030 of the WG prepared by ICID Central Office in consultation with him. The WG reviewed the Action Plan 2030 (AP-2030) and updated/modified it keeping in view the revised scope/mandate of the WG and the duration of the WG (**Annex 2**). The final goal proposed at the end of the WG mandate will be developing a guideline on the 'Water balance approach in irrigation systems'. The WG recommended to PCTA that a work body on groundwater be established. *Later, PCTA during its meeting noted that there were no volunteers to move the topic forward and no Scoping Document was prepared. PCTA, after discussion, decided that the groundwater issue be dealt as part of the mandate of the WG-IDM.*

WG-IDM Minutes Item 4: Presentation by the members

5. During the meeting, two very interesting presentations were made by members viz. (i) Mr. Ming-Young Jan's presentation on "Water Resources for Irrigation in Taiwan", relating to IDM scopes and experiences in Chinese Taipei, with a special focus on GIS for precise irrigation management, and (ii) Ms Mary Jean M. Gabriel's on "Irrigation Development and Management in South Africa".

WG-IDM Minutes Item 5: Exchange of information, knowledge & networking – website

6. WG suggested to approach the Central Office to set up a Website for the WG and initially upload the following information: (a) Scoping Document, (b) Membership of the WG, (c) Minutes of the meeting etc. Further developments of the Website of the WG would be discussed during the intermediate meetings (virtual) to be conducted during 2017.

WG-IDM Minutes Item 6: Updating Multilingual Technical Dictionary (MTD)

7. This item of updating MTD could not be discussed during the meeting, as the priority was the finalization of the scope/mandate and actions to be included in the Work Plan. WG agreed to discuss this item during the next meeting of the WG at Mexico in 2017.

WG-IDM Minutes Item 7: Review of membership of the working group

8. During the meeting, the group reviewed the nominations received for the membership of the WG and unanimously decided to accept Dr. Wu Jingwei (China), provisional member of 2015 and new nominations of Dr. Narges Zohrabi (Iran), Mr. Ahmet Şeren (Turkey) and Dr. Amgad Elmahdi (Australia) as members as they were either present or contributed to the activities of the WG. WG also approved continuation of Mr. Mohammad Kazem Siah (Iran), provisional member of 2015, as provisional member and new nominations of 2016 of Eng. Abd Elsalam Mohamed Salih Idriss (Sudan), Mr. G.L. Bansal (India), Dr. Hanan Hussein Abbood (Iraq) and Ms. Maryam Naeem Odaa Al-Obaidy (Young Professional, Iraq) as provisional members as they were not present.

9. During the meeting, WG Chair Mr. François Brelle expressed his inability for his regular presence in the meeting of the WG and continue as Chairman. He therefore offered his resignation to the group, and requested that the WG to elect a new chairperson. Ms Mary Jean M. Gabriel (South Africa) and Mr. Ahmet Şeren (Turkey) presented their candidature. After discussion, the WG agreed unanimously to designate Ms. Gabriel as Chair and Mr. Şeren as Vice-Chair. Both were warmly congratulated for their commitment to lead the group. Mr. Brelle informed the Group that he would continue as a member of the Working Group. Membership status is given in **Annex 5 (page 33)**.

WG-IDM Minutes Item 8: Any other business**Webinar/ web-based seminar**

10. WG could not discuss this item due to paucity of time and agreed that this issue will be reviewed during next meeting of the WG at Mexico City 2017.



WORKING GROUP ON IRRIGATION DEVELOPMENT AND MANAGEMENT (WG-IDM)

SCOPING DOCUMENT

Approved by the Working Group on 9th November, 2016 Chiang Mai, Thailand

Introduction

Developing irrigation is undoubtedly essential for meeting the challenge of properly feeding the planet for the next decades. But it will not be achieved without managing water in irrigation, aiming ultimately at producing more food with less water. Water management in irrigation must deal with quantities withdrawn from natural environment or made available at the end of another usage, and returning to environment or to another usage, but also with the quality of abstracted and returned water. It requires therefore a clear distinction, understanding and application of 'consumptive' and 'non-consumptive' water use, with beneficial and non-beneficial irrigation on the one side, and recoverable and non-recoverable drainage on the other (Perry, 2007)¹. It is commonly understood that 'non-consumptive' water use does not substantially change the withdrawn water. But one must keep in mind that a 'substantial change' may be defined differently in different countries (FAO, 2010)².

Water from various origins is used to supply irrigation: Surface water from close resource or transported on long distance, groundwater from shallow water tables or from deep aquifers as well. Multiple resources may be available at the same place, differing in operation cost, in quantity and in quality. Other usages often compete with irrigation. Therefore, an assessment of the total amount of water available during an irrigation season is essential for determining the optimal consumptive as well as non-consumptive use, the latter remaining available for a second usage. Dependent on the local conditions, groundwater irrigation may be more efficient than surface water schemes. Both may be used together on the same spot. However, especially in arid and semi-arid conditions, there is often a need to stop over-exploitation and ensure sustainable use by technological and institutional interventions so that, where possible, storages could be used during the drought periods.

There are many successful practices, and research findings potent works and non-conventional pathways of achieving irrigation development and management in a way which will allow increasing food production while decreasing pressure on water resources. A few of them are rated as outstanding contributions in water conservation across the world. Many go unrecognized, as well. There is urgent need to explore all those innovations and share with stake holders i.e. irrigation managers and policy makers. There is also need to strengthen the process of transfer and dissemination of water management skills to the farmers, their organizations, and to the organizations in charge of water management at system level, from professional experts, consulting firms, international organizations, through feedback on success stories as well as lessons learnt from failures.

In this Scoping Document the relevant aspects of each of these items will be reviewed and the objectives, state of knowledge on the topic and the Workplan will be presented.

Objectives

Relevance of the Working Group: The relevance of the WG can be specified as follows:

- (a) the topic of water management in irrigation is relevant to the vision and mission of ICID and of interest for its members, in all countries with a high, medium and low Human Development Index³;
- (b) the WG is expected to contribute to effective implementation of the Strategy Theme Schemes and to other strategy themes for that matter;
- (c) sustainable water management in irrigation is of crucial in many regions of the World, especially in the arid and semi-arid zones where water scarcity and mining of groundwater resources is a well-recognised problem;
- (d) worldwide, there is still confusion on the issue of thrifty use of water. ICID has taken a clear position with respect to this item, based on the paper by Chris Perry (2007). Water saving can only successfully be evaluated by comparing the disposition of water before an intervention and the disposition afterwards. In its activities, especially with respect to water management of irrigation in arid and semi-arid areas, the WG can prepare clear messages with respect to this important issue;

¹ Perry, C., 2007. Efficient irrigation; inefficient communication; flawed recommendations. *Irrigation and Drainage*, v. 56, no. 4, p. 367-378.

² Amit Kohli, Karen Frenken, Cecilia Spottorno - AQUASTAT Programme – FAO, 23 September 2010, revision 23 May 2012

³ *Low Human Development Index*. Most of the countries in Africa, several countries in Asia, one country in Central America and most of the smaller countries in Oceania; *Medium and High Human Development Index*. Most of the Eastern European countries (including Russia), most of the countries in Central and South America and in Asia (including China, India, Indonesia and Pakistan) and several countries in Africa; *Very High Human Development Index*. Most of the countries in Western and Central Europe, North America and some countries in Central and South America and in Asia, the larger countries in Oceania and one country in Africa.

- (e) development and sustainable management of irrigation is part of integrated water resource management, a key issue for achieving human development goals as regards access to quality food, drinking water and sanitation.

Relevance of the Working Group to the scope of the Thematic Area

Sustainable water management at both resource and system level is not only an important requirement in support of global food production, but also for the livelihood of the rural population and for environment. In addition there is the important aspect of integrated river basin management where irrigation is generally the major water user. In quite numerous systems there is 'over' irrigation, which may result in waterlogging, salinization and wasting of water. On the other hand 'deficit' irrigation may result in yield reductions and salinization of the root zone. Therefore a crucial question is what would be optimal irrigation development strategy and water management approach in irrigation under the local conditions. The WG will be exploring the subjects under its scope from perspective of "schemes" and thus is relevant to the Thematic Area.

Existing gap that the Working Group is expected to fill

WG-IDM will address several issues not fully included in past WGs' scope of works, for instance Groundwater management and more globally IWRM. Working on both irrigation development and its management, it will allow bridging possible divides through integrated approaches. Taking into consideration the actual multiple use of water in irrigation schemes should allow better assessing the global water needs, quantity wise as well as quality wise.

Other ICID WGs or Task Forces (TF) that have a related scope of work are: WG-SON-FARM, WG-DROUGHT and WG-CROP. The scope of new WG-WSI (now WG-WATS), WG-R&M (now WG-M&R), WG-IMT (now WG-IOA) and WG-DRG (now WG-SDRG) is also more or less related to the issues to be addressed by WG-IDM.

The WG-IDM has taken good note of the mandate and activities of these Workbodies when preparing this Scoping Document. All these WG, under Theme Leaders' guidance, will:

- (a) keep paying attention that neither redundancy nor gap will exist between their respective work.
- (b) coordinate their work so as to enhance their complementarity.

For instance, WG-IDM should deal with water management at both basin (IWRM) and system (or scheme) levels, irrigation management at field level being within WG-SON-FARM's scope, and re-use of treated waste waters within WG-PQW's one.

State of knowledge on the topic

Other International Organisations that are working on the subject

There are several other International Organisations that have programs and activities on this topic. This especially concerns the:

- (a) Food and Agriculture Organisation of the United Nations (FAO);
- (b) most of the 15 research institutes that are organised within the CGIAR Consortium, especially IWMI, ICARDA, IFPRI, ICRISAT;
- (c) International Fund for Agricultural Development (IFAD);
- (d) other research institutes and Universities;
- (e) professional international water associations, like: IAH, IAHR, ICOLD, IHA, IWA, IWRA, as well as national ones not incorporated within ICID;
- (f) multilateral development banks: ADB, AFDB, IADB, WB;
- (g) international partnerships: GWP, OECD, WWC;
- (h) institutes for international education: UNESCO-IHE...

The niche that ICID is expected to fill in this area

The specific niche that this WG can fill on the issue bulleted under "Scope" can be formulated as follows:

- (a) to exchange information and network on the issues in order to be up to date with new developments, methods and approaches;
- (b) to prepare and present reports and/or case studies on recent development of irrigation in the countries that are represented in the WG, and in least developing countries which benefit from cooperation with the countries that are represented in the WG;

- (c) to identify the examples or the opportunities of South-South cooperation in irrigation development and management improvement;
- (d) to collect and review manuals, guidelines as well as research works on sustainable water management in irrigation (at system and basin levels);
- (e) to consult with ICID Central Office on the continuation of data collection with respect to developments in irrigation management methods in the Member Countries (MC);
- (f) to organise international workshops, seminars or symposia on the issues.

This can be the basis to present recommendations and if mature a position paper on key issues on developing irrigation and sustainable water management, and in fine to prepare an overview paper on the state of the art on the topic for publication in *Irrigation and Drainage (IRD)*.

How is the Working Group expected to collaborate with the other International Organisations?

International Organisations can contribute to the activities of the WG by nominating Permanent Observers (PO). On the other hand presentations of the work and achievements of the WG can be presented at the occasion of events organized by International Organisations.

Work Plan

Refer Annex 2 of the proposed tentative Work Plan, which of course has to be enriched by the WG itself during the first step of its work.

Scope

The core question is "What would be the optimal irrigation development strategy and water management approach in irrigation under local conditions, taking into account the probable effects of climate changes? What is the resulting development potential for irrigation?"

Given the whole context, the scope of works for answering this question would be too broad. All the related issues could not be addressed in the same time, and the Group should act step by step, the first global step being identifying the conditions for good water management in irrigation, the issue of developing irrigation being to be addressed afterwards. Within this global first step in respect with water management, a major issue is how to properly approach the water balance in irrigation.

Therefore, the WG is expected to investigate, analyse, and disseminate information on new developments and to formulate recommendations focusing on the main issue of water balance approach in irrigation. Subsequently, the action plan for the coming three years will concentrate on:

- (a) assessment of consumptive use of water for irrigation and resulting water balance at system level ;
- (b) water demand management according to available resource(s) and system capacity;
- (c) assessment of water loss in various components of irrigation systems, appraisal of water made available for another use downstream (non-consumptive);
- (d) ground water development and management for irrigation including conjunctive use of surface and groundwater in irrigation, artificial recharge of aquifers from canals "losses" and "excessive" irrigation
- (e) water measuring methods and devices and relevant technology (flow rates and volumes).

As a further step, the WG will address the following issues

- (a) drivers for and resistances at system level to improve irrigation management;
- (b) social issues to be considered along with technical and economical ones;
- (c) management of multi-use hydraulic systems, and interdependence between uses;
- (d) performance evaluation of irrigation schemes and benchmarking;
- (e) ways towards economical performance enhancement (cost reduction and efficiency improvement).

Attention should be drawn on the fact that the recommendations made by WG-IDM may be:

- (a) "common", i.e. "universal" relevant in all cases and under various conditions,
- (b) Specific to particular regions or sub-regions.

Target audience

The target audience for this working group will be managers of irrigation systems, consultants, researchers, government agents, farmers' organizations, manufacturers and staff of International Organisations working on the topic.

Outputs

The following outputs can be expected from this WG:

- (a) although it is an indirect output sharing of knowledge and experience by representatives of NCs will also enable them to disseminate this knowledge within their country;
- (b) guidelines on sustainable water management in irrigation;
- (c) condensed overview of existing key books, manuals, guidelines and other relevant publications on the topic;
- (d) the WG is expected to organise at least one workshop, seminar or symposium in three years at occasion of an international ICID meeting;
- (e) overview paper on the topic for publication in *Irrigation and Drainage (IRD)*

Timelines

While irrigation development and water management in irrigation are very important issues in light of its role in support of global food production it is recommended that the initial term of this WG will be set at six years. The timeline would have to be based on the scope of work and the expected output. Details of the timeline would have to be formulated and refined during the inaugural meeting of the WG.

Collaborators and dissemination strategy

The WG would have to base its activities on an open attitude with a clear scope for invitation of outsiders that are interested in the topic on a PO, or ad hoc basis.

The dissemination strategy should be based of reaching those who can apply the findings and recommendations of the WG in their research and especially in policy development, decision making and implementation in practice.



Annex 2 [Appendix XIX, Item 3]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WORKBODIES

Name of the Chairman and members filling this questionnaire: Ms. Mary Jean M. Gabriel (Chairperson), Dr. Katsuyuki Shimizu (Secretary), VPH Francois Brelle (Former Chairman)

Date: 9th November 2016

		Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 1: Enable higher crop productivity with less water and energy under climate change conditions	1.1 Report or case studies on recent development	Case studies Presented in WG meetings	4 to 6 case studies to be presented at WG meeting in Mexico	4 to 6 case studies to be presented at WG meeting in Canada			
	1.2 Assess methods and develop guidelines on relevant water balance approach	Guidelines		Report on state of the art		Draft guidelines	Release the finalised guidelines
Goal 2: Be a catalyst for change in policies and practices	2.1 Identify drivers and social resistances within the systems to improving Irrigation management	Report			Prepare a draft report	Release a draft report	Release the finalised report
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Organize Workshop, Seminar and Symposium			Workshop on water balance approach and how to conceive guidelines			
	3.2 Condensed overview of existing relevant documents and practical examples on water balance approach		Interim report	Final report			
	3.3 Overview paper on the topic for publication in Irrigation and Drainage (IRD)	Paper		Preparation of first paper	Submission of first paper for IRD		
Goal 4: Enable cross disciplinary and inter-sectoral engagement	4.1 Workshop (linked to 3.1)						
Goal 5: Encourage research and support development of tools to extend innovation into field practices	5.1 investigate and report on state of research, barriers or locks and promising paths in the field of irrigation management					Draft report	Final report
Goal 6: Facilitate capacity development	6.1. Report on South-South cooperation for capacity development in the field of irrigation management					Draft Report	Final report



**Minutes of the 3rd Meeting of the
SUB-COMMITTEE ON THEMES, TOPICS AND WORK PLANS OF
FUTURE ICID EVENTS (SC-E-THEMES)**
09 November 2016: 08.00 – 09.00 Hours
Chiang Mai, Thailand

Year of Establishment: 2014

Terms of Reference (ToR): (i) To deliberate and recommend the Themes, Topics and Workplans of future ICID events including Congresses and World Irrigation Forums; (ii) To set out format and technical contents of the Congress and WIFs; (iii) To recommend optimal programme for the Congress to PCTA; (iv) To recommend to PCTA the topics of the two Questions; (v) To review the technical outputs and outcomes and suggest follow ups and (vi) To suggest changes in the composition and ToRs of the sub-committee.

Members Present: (1) PH Prof. Dr. Bart Schultz (The Netherlands), Chair; (2) VPH Gerhard Backeberg (South Africa) and (3)) Er. Avinash C Tyagi, Secretary General, ICID (Resource Person).

Observers Present: (i) Mr. Ian Makin (IWMI) and (2) Mr. Kamran Emami (Iran).

Sub-Committee Minutes Item 1: ATR on the Minutes of the 2nd Meeting of Sub-Committee

1. Sub-Committee has taken note of the suggestions to make use of the video conferencing facilities made available by the Central Office for monitoring of the actions taken on the decision of the SC-E-THEMES.
2. Sub-Committee has taken note of the Action Taken Report on the minutes of the 2nd meeting of Sub-Committee is placed at Annex 1 and found that each item has been covered.

Sub-Committee Minutes Item 2: Review of the Name, ToR and Membership of the Sub-Committee

3. Sub-Committee has reviewed its name, ToR and membership as it has been mandated to look after the technical aspects of only the World Irrigation Fora and International Congresses on Irrigation and Drainage. No change in the name is considered to be required. In light of the change in mandate Secretary General had prepared a note that was attached as Annex 2 to the Agenda. The note was accepted by the meeting and is recommended to PCTA for its consideration and adoption. It is attached as **Annex** to the minutes.
4. Because of the change in the mandate, it is recommended that the membership of VPH Laurie Tollefson be terminated, while the technical aspects of the forthcoming Regional Conference in Canada will be presented and discussed in the Regional American Working Group. The proposal to replace Dr. Luis Pimentel, by Lic. Roberto Ramírez de la Parra, the new President of MXCID to represent the host NC of 23rd ICID Congress is recommended for acceptance by PCTA.

Sub-Committee Minutes Item 3: Theme and Topics for future Congresses

Sub-Committee Minutes Item 3.1: 23rd ICID Congress, Mexico City, 8-14 October 2017

5. There was no representative of the Mexican Committee in the meeting. A sheet with the Theme, and the topics for the Questions, Special Session and Symposium as proposed by ITAC has been disseminated in the meeting by Secretary General. In the meeting also a brochure as prepared by the Mexican Committee was shown. It was observed that there are differences between the two documents. The Chairman and Secretary General will contact at the shortest notice the Mexican National Committee and the Chairman of ITAC to sort this out, preferably before the meeting of PCTA. While the call for papers will have to be disseminated within a few months, also a detailed description of the theme and the topics is required at the shortest notice.

Sub-Committee Minutes Item 3.2: 24th ICID Congress, 2020

6. Sub-Committee has taken note of the information provided and as the venue of the 24th ICID Congress would be decided at the 67th IEC meeting, the further steps would be taken in consultation with the host NC and ITAC for 24th ICID Congress to be constituted for this purpose. In light of the more focused scope as it has been accepted for future congresses, it is requested that the organizers and the ITAC take note of the draft main theme and the two Questions that were already formulated by SC-E-THEMES in its meeting in Montpellier in October 2015:

- (a) **Main Theme:** *Innovation and research in agricultural water management to achieve sustainable development goals;*

- (b) **Question 62:** *What role can information and communication technology play in travelling the last mile;*
- (c) **Question 63:** *What role is played by multi-disciplinary dialogue to achieve sustainable development goals.*

Sub-Committee Minutes Item 4: Theme and Sub-Themes for the 3rd World Irrigation Forum, 2019

7. The Sub-Committee has taken note of the information provided and as the venue for WIF3 would be finalized at the 67th IEC meeting, the preparation of the detailed descriptions/scope would be done in consultation with the host National Committee and ITAC to be constituted for this purpose. In light of the more focused scope as it has been accepted for future World Irrigation Fora it is requested that the organizers and the ITAC take note of the draft themes and the sub-themes that were already formulated by SC-E-THEMES in its meeting in Montpellier in October 2015:

- (a) **Main Theme:** *Development for water, food and nutrition security in a competitive environment;*
- (b) **Sub-Theme 1:** *Enabling policy environment for water, food and energy;*
- (c) **Sub-Theme 2:** *Role of civil society and NGOs with focus on farmers and extension facilities;*
- (d) **Sub-Theme 3:** *Improving agricultural water productivity with focus on rural transformation.*

Sub-Committee Minutes Item 5: Review of formats and technical contents of future ICID Congresses and WIFs

Sub-Committee Minutes Item 5.1: Format and Technical Contents for future Congresses

8. The Sub-Committee considered the format and contents for future Congresses approved by PCTA in its meeting in Montpellier (2015) and recommended that the same may be revisited on the basis of experiences at 23rd ICID Congress in Mexico in 2017.

Sub-Committee Minutes Item 5.2: Format and Technical Contents for future WIFs

9. The Sub-Committee considered the format and contents for future WIFs approved by PCTA in its meeting in Montpellier (2015) and based on the experiences with the WIF2, recommends to PCTA that:

- (a) The name 'Short Communications' is confusing. It is therefore recommended that the name be changed to *Innovative Products and Services*. In addition it is proposed that submissions will not be handled through the review process for the papers and the EasyChair software, but that a separate track for mailing, review and acceptance/rejection will be followed, with different groups of invitees and reviewers, more focused on products and services. The timeframe can in principle remain the same as it is at present for the Short Communications;
- (b) It is felt that the name '*Side Events*' doesn't give sufficient credit to the events that are closely linked with the main theme of the event. It is therefore provisionally recommended that these events be renamed as *Supporting Events*. However, an even better name would be welcome;
- (c) A few *Side Events*, which are not directly linked to the main theme could still be organized under this name; and
- (d) With respect to these events it is also recommended that proposals will be clustered as far as reasonably possible and that due recognition will be given to the organizers in the publications, the displays at the venue and the media.

Sub-Committee Minutes Item 6: Any Other Business



REPORT OF SC-E-THEMES TO PCTA

Third Meeting of the Sub-Committee on Themes, Topics and Work Plans of Future ICID Events (SC-E-THEMES) held on 09 November 2016 at Chiang Mai, Thailand makes the following recommendations in order to evolve a Permanent Mechanism to formulate the Themes and Topics for Congresses, World Irrigation Fora, International Micro Irrigation Conference, International Drainage Workshops and Regional Conferences of ICID, in view of the revised mandate adopted for C-CONGR at Montpellier, France during 66th IEC on 15 October 2015.

Recommendation 1

The membership composition and mandate be adopted as:

Composition of Membership:

1. Technical Experts – one each drawn from ITAC for immediate past and future WIF and Congresses, within a span of six years.
2. Two Experts nominated by PCTA.
3. Three Experts drawn from Technical Workbodies of ICID
4. Chairperson of SC will be nominated from amongst the members, by the President in consultation with Secretary General.
5. The membership will be for a maximum of six years and the nominee of ITAC of past Event will be a member for two years after the conclusion of that particular event.
6. The membership shall not exceed more than 10 members.

Terms of Reference:

1. To deliberate and recommend the Themes, sub-themes and Work plans of future Congresses and World Irrigation Forums
2. To set out format and technical contents of the Congress and WIFs
3. To recommend to PCTA the topics of the two Questions and the optimal program for the Congress,
4. To review the technical outputs and outcomes and suggest follow ups

Recommendation 2

The 'Guiding Principles for choosing the Themes for ICID Congresses and World Irrigation Forums' and also the guidelines for distinguishing the two triennial events - Congress and WIF in all its technical aspects and conduct, are as approved in 65th IEC in Gwangju.

Recommendation 3

The following procedure for deciding the themes and topics for future international micro irrigation conferences, international drainage workshops and regional conferences be adopted and the mandate of the concerned work body may be appropriately incorporated:

- (1) **International Micro Irrigation Conference:** Working Group on Water and Crops (WG-CROP) reporting to PCTA
- (2) **International Drainage Workshops:** Working Group on Sustainable Drainage (WG-SDG) reporting to PCTA.
- (3) **Regional Conferences:** The Asian Regional Conference, African Regional Conference, European Regional Conference and American Regional Conference may be formulated by the respective Regional Working Groups and the proposal may be routed through PCTA for Council's approval. The membership composition and terms of references for RTACs may be formulated by the respective RWGs.



