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Minutes

68th Meeting of International Executive Council (IEC)
and

Pre-Council Meetings of Workbodies

8-14 October 2017, Mexico City, Mexico

International Commission on Irrigation and Drainage (ICID)

New Delhi, India

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Minutes of the 68th Meeting of International Executive Council (IEC) of ICID

8-14 October 2017, Mexico City, Mexico

Contents

Item No.	Description	No.
IEC Minutes Item 1:	Welcome and opening remarks by the President	1
IEC Minutes Item 2:	Scoping out the issues to be addressed during the workbody meetings: Secretary General, Chair of PCTA and Chair of PCSO	1
IEC Minutes Item 3:	Presentation by the National Committees: Somalia.....	2
IEC Minutes Item 4:	Presentation of Awards: WatSave, Best Paper, Best Performing National Committee, Best Performing Workbody, Heritage Irrigation Structures	2
IEC Minutes Item 4.1:	Presentation of WatSave Awards	2
IEC Minutes Item 4.2:	Presentation of the Award for the Best Paper in the ICID Journal "Irrigation and Drainage"	2
IEC Minutes Item 4.3:	Presentation of 6th Best Performing National Committee Award (BPNCA-6)	2
IEC Minutes Item 4.4:	Presentation of 5th Best Performing Workbody Award (BPWA-5)	2
IEC Minutes Item 4.5:	Recognition of Heritage Irrigation Structures (HIS).....	2
IEC Minutes Item 5:	Action Taken Report on the decisions of 67th IEC and the decisions taken by the Management Board (MB).....	3
IEC Minutes Item 6:	Report by the Secretary General	3
IEC Minutes Item 7:	Presentation on Strategy Theme "Schemes"	3
IEC Minutes Item 8:	International Research Program for Irrigation and Drainage (IRPID) Scheme	3
IEC Minutes Item 9:	Reports by the Chairs of Permanent Committees	4
IEC Minutes Item 9.1:	Permanent Finance Committee (PFC).....	4
IEC Minutes Item 9.2:	Permanent Committee on Strategy and Organization (PCSO)	5
IEC Minutes Item 9.3:	Permanent Committee For Technical Activities (PCTA).....	5
IEC Minutes Item 9.4:	Decisions on the Recommendations of the Permanent Committees.....	5
IEC Minutes Item 10:	Vision to Action	6
IEC Minutes Item 11:	Task Force on Revitalization of ICID Network (TF-REV)	6
IEC Minutes Item 12:	Task Force to Guide the Partnership Process (TF-GPP).....	6
IEC Minutes Item 13:	Report of Sub-Committee on possible changes in Constitution/By-laws.....	7
IEC Minutes Item 14:	Status of Future ICID Conferences / Congresses / Forums	7
IEC Minutes Item 15:	Election of the Office-Bearers 2017-2020.....	8
IEC Minutes Item 16:	Nomination of the New Secretary General, ICID	8
IEC Minutes Item 17:	Presentation of ICID Plaques to Retiring President, Vice Presidents and Chairs of Workbodies.....	8
IEC Minutes Item 17.1:	Retiring President and Vice Presidents.....	8
IEC Minutes Item 17.2:	Retiring Chairs of Workbodies.....	9
IEC Minutes Item 18:	Any other business by the permission of the Chair.....	9

RESOLUTIONS

Resolution IEC-1/68: Financial Matters of ICID	11
Resolution IEC-2/68: Organizational and Technical Matters of ICID.....	12
Resolution IEC-3/68: A Road Map to ICID Vision 2030	13
Resolution IEC-4/68: Changes in the Constitution and By-Laws of ICID.....	14
Annex R1.1: Independent Auditor's Report.....	15
Annex R1.2: Approved Revised Budget 2017-2018 and Approved Budget 2018-2019.....	21
Annex R2.1: Technical Support Program (TSP).....	23
Annex R4.1: Report of the Sub-Committee to Look at the Possible Changes in Constitution and By-Laws.....	33

ANNEXES TO IEC MEETING

Annex 1: List of Participants at the 68 th International Executive Council (IEC) Meeting	41
Annex 2: Important Decisions Taken by the Management Board on behalf of IEC	43
Annex 3: Presentation on Strategy Theme "Scheme"	44
Annex 4: Subscription details for the National Committees	47
Annex 5: Revised Mandate of Re-established Workbodies.....	51
Annex 6: Outcome of 23rd ICID Congress	53
Annex 7: Membership Status of various Workbodies	55
Annex 8: Fee Structure for ICID Events in 2018 to 2020.....	63

APPENDICES TO IEC MEETING

Appendix I Permanent Finance Committee (PFC)	65
Appendix II Permanent Committee on Strategy and Organization (PCSO)	71
Appendix III Permanent Committee for Technical Activities (PCTA).....	75

Minutes of Workbodies Under PERMANENT COMMITTEE ON STRATEGY AND ORGANIZATION (PCSO)

Appendix IV African Regional Working Group (AFRWG)	83
Appendix V American Regional Working Group (AMRWG).....	87
Appendix VI Asian Regional Working Group (ASRWG)	95
Appendix VII Committee on Congresses / Conferences (C-CONGR).....	97
Appendix VIII European Regional Working Group (ERWG)	101
Appendix IX Working Group on Irrigation and Drainage in the States under Socio-Economic Transformation (WG-IDSST)	105
Appendix X ICID Young Professional's e-Forum (IYPeF)	107

Strategy Theme: BASIN

Appendix XI	Working Group on Water for Bio-Fuel and Food (WG-BIO-FUEL).....	111
Appendix XII	Working Group on Global Climate Change & Agricultural Water Management (WG-CLIMATE)	113
Appendix XIII	Working Group on Environment (WG-ENV).....	115
Appendix XIV	Newly Proposed Working Group on Integrated Flood Management (WG-IFM).....	117
Appendix XV	Working Group on Managing Water Scarcity Under Conflict Demands (WG-MWSCD)	119
Appendix XVI	Working Group on Sustainable Development of Tidal Areas (WG-SDTA)	123

Strategy Theme: KNOWLEDGE

Appendix XVII	Working Group on Capacity Development, Training and Education (WG-CDTE).....	127
Appendix XVIII	Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST).....	131
Appendix XIX	ICID Journal Editorial Board (EB-JOUR).....	135
Appendix XX	Committee on Public Relations and Publications (C-PR&P).....	139
Appendix XXI	Task Force for Updating and Maintenance of Multilingual Technical Dictionary (TF-MTD).....	141
Appendix XXII	Task Force on Value Engineering (TF-VE)	143
Appendix XXIII	Task Force to Guide ICID Inputs to 8th World Water Forum (TF-WWF8).....	145

Strategy Theme: ON-FARM

Appendix XXIV	Working Group on Use of Poor Quality Water for Irrigation (WG-PQW).....	147
Appendix XXV	Working Group on Sustainable On-Farm Irrigation System Development (WG-SON-FARM) ..	149
Appendix XXVI	Working Group on Water and Crops (WG-WATER & CROP).....	153

Strategy Theme: SCHEMES

Appendix XXVII	Working Group on Irrigation Development and Management (WG-IDM).....	157
Appendix XXVIII	Working Group on Institutional Aspects of Irrigation/ Drainage System Management (WG-IOA).....	161
Appendix XXIX	Working Group on Modernization and Revitalization of Irrigation Schemes (WG-M&R).....	165
Appendix XXX	Working Group on Sustainable Drainage (WG-SDRG).....	169
Appendix XXXI	Working Group on Water Saving in Irrigated Areas (WG-WATS).....	173
Appendix XXXII	Sub-Committee on Themes, Topics and Work Plans of Future ICID Events (SC-E-THEMES)	175

List of Abbreviations

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

IPTRID	International Program for Technology Research in Irrigation and Drainage	PNC-ICID	Philippine National Committee of the International Commission on Irrigation and Drainage
IRCID	Irish National Committee on Irrigation and Drainage	PNCID	Portuguese National Committee on Irrigation and Drainage
IRNCID	Iranian National Committee on Irrigation and Drainage	RIO+20	United Nations Conference on Sustainable Development
IRQCID	Iraqi National Committee of Irrigation and Drainage	RUCID	National Committee of the Russian Federation on Irrigation and Drainage
ISCID	Israeli National Committee, ICID	SADC	Southern African Development Community
ISO	International Organization for Standardization	SANCID	South African National Committee on Irrigation and Drainage
ITAC	International Technical Advisory Committee	SARIA	Southern African Regional Irrigation Association
ITAL-ICID	Comitato Nazionale Italiano ICID	SG	Secretary General
ITRC	Irrigation Training and Research Center	SINCID	Slovenian National Committee on Irrigation and Drainage
IYPeF	ICID Young Professional's E-Forum (IYPeF)	SLNICID	Sri Lanka National Committee, ICID
IWALC	International Water-related Associations' Liaison Committee	SC-E-THEMES	Sub-committee on Themes, Topics and Work Plans of the Future ICID Events
IWMI	International Water Management Institute	SYCID	Syrian National Committee of Irrigation and Drainage
IWP	Irrigation Water Productivity	TANCID	Tanzania National Committee for Irrigation and Drainage
JICA	Japan International Cooperation Agency	TDS	Text Delivery Service
JNC-ICID	Japanese National Committee, ICID	TF	Task Force
KAZCID	National Committee of Kazakhstan on Irrigation and Drainage	WG-BIO-ENERGY	Working Group on Water for Bio-Energy and Food
KCID	Korean National Committee on Irrigation and Drainage	WG-BIO-FUEL	Working Group on Water for Bio-Fuel and Food
KYRCID	Kyrgyz National Committee, ICID	TF-VE	Task Force on Value Engineering
LinkedIn	Professional social networking website	TF-WWF8	Task Force to Guide ICID Inputs to World Water Forum 8
LTCID	Lithuanian National Committee on Irrigation and Drainage	THAICID	Thai National Committee on Irrigation and Drainage
MAKCID	Comite Nationale d'Irrigation et de Drenage de Macedonie	TUCID	Turkish National Committee, ICID
MANCID	Malaysian National Committee on Irrigation and Drainage	UACID	Ukraine National Committee of ICID
MB	Management Board	UIP	User Interface Platform (of GFCS)
MDG	Millennium Development Goals	UN	United Nations
MH	Meeting Hall	UNCSD	United Nations Conference on Sustainable Development
MNCID	Myanmar National Committee on Irrigation and Drainage	UNDP	United Nations Development Programme
MoU	Memorandum of Understanding	UNESCO	United Nations Educational, Scientific and Cultural Organization
MTD	Multilingual Technical Dictionary	UNESCO-IHE	UNESCO-IHE Institute for Water Education
MXCID	Mexican National Committee of International Commission on Irrigation and Drainage	UNW-DPC	UN-Water Decade Programme on Capacity Development
NC	National Committees/Committee	URUCID	Uruguay National Committee, ICID
NENCID	Nepal National Committee, ICID	USCID	U.S. National Committee on Irrigation and Drainage
NETHCID	Netherlands National ICID Committee	UzNICID	Uzbekistan National Committee, ICID
NGO	Non-Governmental Organization	VPH	Vice President Honoraire
NINCID	Nigerian National Committee on Irrigation and Drainage	WATSAVE	Water Saving Activities / Award
OECD	Organisation for Economic Co-operation and Development	WB	World Bank
PANCID	Pakistan National Committee on Irrigation Drainage	WECS	World Energy Commission Secretariat
PCSO	Permanent Committee on Strategy and Organization	WG	Working Group
PCTA	Permanent Committee for Technical Activities		
PFC	Permanent Finance Committee		
PH	President Honoraire		

WG-CAFM	Working Group on Comprehensive Approaches to Flood Management	WG-PQW	Working Group on Use of Poor Quality Water for Irrigation
WG-CLIMATE	Working Group on Global Climate Change and Agricultural Water Management	WG-SDTA	Working Group on Sustainable Development of Tidal Areas
WG-CDTE	Working Group on Capacity Development, Training and Education	WG-TRUE	Working Group on Technology and Research Uptake and Exchange
WG-WATER & CROP	Working Group on Water and Crops	WG-WATS	Working Group on Water Saving in Irrigated Areas
WG-SDRG	Working Group on Sustainable Drainage	ICID-IYPeF	ICID Young Irrigation Professional's e-Forum
WG-DROUGHT	Working Group on Water Management in Water Stressed Regions	WID Prize	World Irrigation and Drainage (WID) Prize
WG-ENV	Working Group on Environment	WIF	World Irrigation Forum
WG-HIST	Working Group on History of Irrigation, Drainage and Flood Control	WMO	World Meteorological Organization
WG-IFM	Working Group on Integrated Flood Management	WSH	World Water System Heritage
WG-IDM	Working Group on Irrigation Development and Management	WUA	Water Users Association
WG-IOA	Working Group on Institutional Aspects of Irrigation/ Drainage System Management	WWAP	World Water Assessment Programme
WG-IDSST	Working Group on Irrigation and Drainage in the States Under Socio-Economic Transformation	WWC	World Water Council
WG-SON-FARM	Working Group on Sustainable On-Farm Irrigation System Development	WWD	World Water Day
WG-POVERTY	Working Group on Role of Irrigation in Poverty Alleviation and Livelihoods	WWF	World Water Forum
		YUGCID	Yugoslav Association on Drainage and Irrigation
		ZACID	Zambian National Committee, ICID
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**Minutes of the 68th Meeting of
INTERNATIONAL EXECUTIVE COUNCIL (IEC) OF ICID
Mexico City, Mexico
Opening Plenary (First Session): 10 October 2017, 09:00 – 10:30 Hours
Second Session: 14 October 2017, 09:00 – 12:30 Hours
Third Session: 14 October 2017, 13:30 – 17:30 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): 10 October 2017, 09:00 – 10:30 hours

The 68th meeting of the International Executive Council of ICID 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 600 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 14th October and 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 68th IEC meeting is given in **Annex 1, page 41** and includes representatives of 32 National Committees, 10 Office Bearers, past Presidents and Vice Presidents, along with Observers.

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

1. President Dr. Saeed Nairizi welcomed the members to the 68th IEC meetings. He once again thanked MXCID for making excellent arrangements despite the recent devastating earthquake that the country had faced. He wished peace to the departed souls and pledged support to the bereaved population and wished injured ones speedy recovery.
2. In his opening remarks, the President pointed out the role that ICID has to play with the international water community in perspective of the new challenging conditions of growing water scarcity and impending climate change. The President highlighted the main achievements of the Commission during the last year since the Chiang Mai IEC meeting and impressed upon a coherent approach towards the mission of ICID among its various stakeholders.
3. Accompanied by Secretary General Avinash C. Tyagi, Vice President Dr. Ding Kunlun, Chair, PCTA and Vice President Mr. Bong Hoon Lee, Chair, PCSO, President Dr. Nairizi informed that the document would be circulated far and wide to build awareness in every stakeholder engaged in the AWM on the possible way forward within their field of operation. He pointed out that the vision document includes insightful inputs from various stakeholders of AWM. To highlight ICID's mission, vision and goals, and to contribute and improve use of water in agricultural activities in rural areas around the globe, 'A Road Map to ICID Vision 2030: A Water Secure World Free of Poverty and Hunger' was unveiled by President Dr. Saeed Nairizi. Speaking on the occasion, President said that the ICID Vision 2030 Roadmap is one of the best documents available around the globe on how we can deal with water management in agriculture to eradicate poverty and hunger. He appreciated the work of the Consultative Group under the leadership of VPH Dr. Hüseyin GÜNDOĞDU, and other members Dr. Sylvain Perret, VPH Dr. Willem Vlotman, VPH Dr. Gerhard Backeberg, VP Ian Makin, VP Prof. Charlotte de Fraiture, VP Er. Waseem Nazir and Secretary General Avinash C. Tyagi, ICID.

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

4. Secretary General introduced the Agenda and drew the attention of the members to the main issues such as the Vision to Action, Changes in the ICID Constitution and Bye-laws, International Research Program for Irrigation and Drainage, Technical Support Program that called for special consideration of the members during the session.

He pointed out that two very important issues would be discussed under the PFC agenda: (i) Report on the Financial Sustainability of ICID and (ii) Revision of the Annual Subscription Formulae. He informed that the members would get opportunity to discuss the annual subscription issue at other work body sessions as well.

5. VP Dr. Ding Kunlun, Chairman, PCTA informed the members present that the ACTION PLAN 2017-2021, which forms part of the Road Map, includes activities identified by WGs, RWGs, NCs and ICID CO to implement the Strategies. He pointed out that the Action Plan is dynamic and needs to be updated periodically. He advised WGs to envisage their role in the Action Plan and suggest a monitoring mechanism. He also drew attention of the members to suggestions towards making the meetings of workbodies more productive.

6. VP Bong Hoon Lee, Chairman, PCSO made short presentations on the important aspects that various WGs needed to pay attention to evolving a monitoring mechanism for Road Map to ICID Vision 2030 which is one of the main agenda items at the PCSO meeting. He drew the attention of the members that under discussion will also be the Draft "Knowledge Management Strategy" of ICID which envisions a more efficient collection, compilation, integration and dissemination of various ICID outputs for diverse communities of stakeholders for their sensitization, collaboration and/or capacity development.

IEC Minutes Item 3: Presentation by the National Committees: Somalia

7. The representative of National Committee of Somalia (SONCID), could not join the meeting and share aspects regarding the agriculture water management scenario in Somalia.

IEC Minutes Item 4: Presentation of Awards: WatSave, Best Paper, Best Performing National Committee, Best Performing Workbody, Heritage Irrigation Structures

IEC Minutes Item 4.1: Presentation of WatSave Awards

8. PH Dr. Gao Zhanyi (China), as the Chair of the Panel of Judges for WatSave Award 2017, presented his report and recommended to the Council for conferring the awards in four categories: (i) **Technology Award** for "Developing 'Water Savings Calculator' for estimating water savings" to Mr. Chris Norman and Mr. Carl Walters (Australia); (ii) **Innovative Water Management Award** for "Promoting water saving interventions in large irrigation systems" to Prof. Wang Aiguo (China); (iii) **Farmer Award** for "Effective water management through farmer's cooperative interventions" to Dr. Sharad Deshmukh (India); and (iv) **Young Professional Award** for "Designing Micro-Lysimeter for accurate measurement of crop water requirements" to Mr. Mahdi Sarai Tabrizi (Iran). President handed over the plaques and the prize monies to the winners.

IEC Minutes Item 4.2: Presentation of the Award for the Best Paper in the ICID Journal "Irrigation and Drainage"

9. Out of all the papers published in the ICID Journal "Irrigation and Drainage" during the year 2016, the best paper was announced by Chair of EB-JOUR, PH Prof. Dr. Bart Schultz which was awarded to Sabine J.Seidel, Stefan Werisch, Klemens Barfus, Michael Wagner, Niels Schütze and Hermann Laber from Germany for their paper titled "Field Evaluation of Irrigation Scheduling Strategies using a Mechanistic Crop Growth Model".

IEC Minutes Item 4.3: Presentation of 6th Best Performing National Committee Award (BPNCA-6)

10. PH Dr. Gao Zhanyi (China) as Chair of the Panel of Judges for the BPNCA-6 announced the result of the evaluation, judging IRNCID as the Best Performing NC based on the work undertaken by it during the last three years. The award consisting of a trophy and citation plaque was presented by the President.

IEC Minutes Item 4.4: Presentation of 5th Best Performing Workbody Award (BPWA-5)

11. The prize was not awarded as none of the workbodies submitted nomination for BPWA-5.

IEC Minutes Item 4.5: Recognition of Heritage Irrigation Structures (HIS)

12. The Chair of the Panel of Judges, VP Bong Hoon Lee, PCSO Chairman, presented the report to the Council, the historical irrigation and drainage structures identified to be recognized as Heritage Irrigation Substructures. Accordingly, the Council accorded its approval to the recognition as "Heritage Irrigation Structures" to the irrigation structures from: **Australia:** Goulburn Weir, Bleasdale Vineyards Flood Gate; **China:** Ancient Yellow River Irrigation System, Hanzhong Ancient Weir Irrigation System, and Huang Ju Irrigation System; **Japan:** Doen Irrigation System, Nasu Irrigation System, Matsubara-Muro Irrigation System, and Odai Irrigation Canal; **Korea:** Dangjin Hapdeojke,

and Manseokgeo Dam (Ilwang Reservoir) and **Mexico**: Chinampa (Prehispanic sub-irrigated farm), and La Boquilla Dam. The irrigation structures recognized as HIS will be later included in the ICID Register of HIS.

13. The President handed over the “Plaque and Certificate” to this effect to the owner agencies of these structures. President ICID handed over the plaque for Chinampa (Prehispanic sub-irrigated farm), and La Boquilla Dam to H.E. the President of Mexico during the Opening Ceremony of the 23rd ICID Congress in the presence of Mayor of Mexico City.

Second Session: 14 October 2017, 09:00 – 12:30 hours

IEC Minutes Item 5: Action Taken Report on the decisions of 67th IEC and the decisions taken by the Management Board (MB)

14. Secretary General informed that actions on all the decisions by the 67th IEC had been initiated/completed during the year. The Council endorsed 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, as listed in **Annex 2, page 43**.

IEC Minutes Item 6: Report by the Secretary General

15. Secretary General presented the Annual Report 2016-17, and also presented the physical and financial progress on activities undertaken during the period from April 2017 till date.

IEC Minutes Item 7: Presentation on Strategy Theme “Schemes”

16. The technical activities of ICID are organized under four Strategy Themes, namely Knowledge, Schemes, Basin and On-farm. Currently, there are five working groups under the ST-Schemes, viz. WG-SDRG, WG-IOA, WG-M&R, WG-WATS and WG-IDM. The Co-Theme Leader of ST-Schemes, VP Dr. Ding Kunlun (China) made a presentation on Strategy Theme “Schemes” analyzing the work undertaken by the work bodies under the theme.

17. VP Dr. Kunlun pointed out that based on the subject and mandates of the Working Groups, there are some overlaps by different working groups under the theme. For example, the topic of “charging irrigation services and cost recovery or sharing” are covered by the WG-IOA, WG-M&R and WG-WATS. Similarly, “Institutional and organizational” aspects are covered by WG-IOA, WG-M&R and WG-WATS, while “water measuring” aspect is covered by WG-WATS and WG-IDM; and “assessment of water loss in various components of irrigation systems” is covered by WG-WATS, WG-IDM and WG-M&R. He suggested that for such common aspects, the WGs should put together their strength to jointly prepare outputs or deliverables.

18. VP Dr. Kunlun pointed out that some of the issues raised at 13th IDW, such as measures to improve drainage water quality; measures to lower volume of drainage water; adaption of new design criteria in favour of the environment; and application of alternative drainage methods should be addressed by WG-SDRG. He also stressed that activities or topics under the ST-Schemes should emphasize more on the scheme level issues rather than individual techniques and devices. In other words, he pointed out, systematic knowledge, methodologies, approaches, or comprehensive techniques are required for the improvement of irrigation and drainage systems to enhance the overall efficiency, productivity and sustainability. This can involve engineering, management, O&M, resources and financial aspects, or all of them.

19. In order to enhance the visibility of WGs and further ICID goals by bringing out technical “products” like Methods, Guidelines, Guidance, Manuals” etc. which are more demanded by the national committees for the works at scheme level in practice, should be produced. He gave examples of products brought out by ICID earlier, such as “Guidelines for Rehabilitation and Modernization of irrigation Projects” (W. Price. WG-IDM of ICID, 1999), and RAP and MASSCOTE used as the appraisal and assessment tools for rehabilitation and modernization of existing irrigation projects (FAO, 2008), all of which are used as guidance material in many countries. The text of the report is given at **Annex 3, page 44**.

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

20. The Council was informed that the revised IRPID Scheme (http://www.icid.org/irpid_scheme.pdf), approved by 67th IEC vide Resolution IEC-3/67 had been notified vide Notification No.6 of 2017 dated 23 February 2017 among ICID National Committees, exhorting them to establish Regional Nodes within the framework of revised IRPID Scheme, with the objective to promote research in irrigation and drainage to achieve ICID's Vision of 'Water secure

world free of poverty and hunger through sustainable rural development'. Currently two Regional Nodes are functioning – one at Tehran hosted by IRNCID and other at Beijing hosted by CNCID.

21. The Council suggested that the proposals for opening new Regional Nodes may be considered by the Advisory Committee set up for IRPID, i.e. AC-IRPID, based on proposals from the willing host NCs who fulfill the requirements for establishment of a Regional Node as laid down in the IRPID Scheme. The Council endorsed the proposal of PCTA on the issue of establishing IRPID nodes in Africa and the Mediterranean regions, and for that the NCs of Egypt and Italy may prepare formal proposals for consideration of AC-IRPID. IEC also endorsed the appeal of PCTA for the RNs to start getting the Irrigation Research (IrriSEARCH) database template in AWM, which needs to be populated by the RNs and its affiliate NCs. It noted that the database developed by the Central Office as a tool would help in fulfilling the objectives of IRPID.

IEC Minutes Item 9: Reports by the Chairs of Permanent Committees

IEC Minutes Item 9.1: Permanent Finance Committee (PFC)

22. VPH Laurie Tollefson, Chairman, PFC presented his report on the 38th meeting of the PFC held on 09 October as given at **Appendix I, page 65**. As Chair of the 'Task Force to review the membership structure and annual membership subscription formulae (TF-AM)', the PFC Chair also presented the report of TF highlighting the 'Financial Sustainability of ICID' as an organization in the light of the Road Map to ICID Vision 2030 unveiled at the opening plenary of the Council.

23. The Council endorsed the PFC recommendation that the 1991 formulae being used presently be updated as follows and the annual subscriptions rates shall be recalculated every three years during the meeting of IEC in a Congress year.

The revised formulae:

$$S(2017) = \{1515 + \text{UNC} + 1900 A^{**0.35}\} \times \{\ln F\} \dots \quad \{\text{for NC with } A > 9.35 \text{ M}\}$$

$$S(2017) = \{1515 + \text{UNC} + 1360 A^{**0.5}\} \times \{\ln F\} \dots \quad \{\text{for NC with } A < 9.35 \text{ M}\}$$

Where,

(i) S(2017) is the subscription in US \$;

(ii) UNC, for countries paying UN contribution

< 0.30 per cent:	UNC = 0.
>0.3 per cent but < 0.6 per cent:	UNC = US \$ 725
>0.6 per cent but < 1.5 per cent:	UNC = US \$ 1450
>1.5 per cent but <3.0 per cent:	UNC = US \$ 2175
> 3.00 per cent:	UNC = US \$ 2900

(iii) A is the Weighted Benefitted Area calculated as follows:

$$\text{Weighted Benefit area} = IA + (0.5) * DA \dots \dots \text{if } IA > DA$$

$$\text{Weighted Benefit area} = DA + (0.5) * IA \dots \dots \text{if } DA > IA \text{ and Irrigated Area (IA); Drainage Area (DA)}$$

(iv) In F is the cumulative Inflation Factor for three years as obtained from the IMF data?

24. The Council further endorsed the recommendation of PFC that in order to have a smooth transition to the new subscription, the NCs will be provided an opportunity up to 31st December 2017 to indicate, if the Benefitted Areas shown in Table 1 given at **Annex 4, page 47** and used in calculating the subscription are correct or not. The NCs, if they find the areas used are correct, may indicate how they would like to have transition into the new subscription regime within the next three years. If no objection is received from the NC, the new annual subscription would be raised by CO as per the calculations in the Table 1. In case objection is raised due to reconciliation of the irrigated and drained area figures, the matter will be placed before the PFC, who will take the final decision through a virtual meeting before 31st March 2018 and ratified by IEC through circulation among the NCs.

25. The Council was informed that the NC of Indonesia has reduced the full registration fee for WIF3 to US\$ 700 in place of earlier proposed US\$ 800. The Council approved the revised registration fees which needs to be appreciated as this will result greater participation in WIF3 at Bali in 2019.

26. IEC noted that PFC had recommended that the future host organizers may be asked to suggest two tier system of registration fee structure so that those experts, who are not able to afford high registration fee, may get an option

with lower registration fee and able to join ICID events. However, IEC members objected to the proposal and expressed that it would be not practical to implement it. The Council rejected the proposal.

27. The Council endorsed the views of PFC that the financial assets such as operating funds in the banks should be invested more professionally and the possibility of investing some of the operating reserves in other financial instruments such as Mutual Funds (with low risks), needs to be explored. The Council also endorsed the recommendation of PFC that ICID should steadily build up a reserve equivalent to the expenditure of the previous year since there is large fluctuation in the revenue resources and certain risks which need to be hedged against.

28. The Council endorsed the proposal of PFC to construct additional office space as part of the Central Office building for leasing out the office space for rent to be able to generate more income. The Council advised SG to explore the possibility of obtaining loan (Approx. Rs 70 million) for construction of the additional office space, from sources other than YES Bank, as loan from Yes Bank may compromise ICID's position in negotiating the market rent for the space rented out to them.

29. The Council endorsed the recommendation of PFC to set up a special Task Force to explore the feasibility of establishing an independent business unit whose profits could plough in as a revenue to ICID budget.

IEC Minutes Item 9.2: Permanent Committee on Strategy and Organization (PCSO)

30. VP Bong Hoon Lee, Chairman, PCSO presented his report on the 28th meeting of PCSO held on 12 October as given at **Appendix II, page 71**.

31. The Council endorsed the mechanism proposed by PCSO to monitor the Action Plan. It agreed that the WGs may be requested to monitor the progress of activities and report it to their respective Permanent Committees vis-à-vis the activities identified in the Action Plan. The Council also agreed that the Co-Theme Leaders should also take stock of the progress of WGs under the Action Plan in their synthesis report to PCTA.

IEC Minutes Item 9.3: Permanent Committee for Technical Activities (PCTA)

32. VP Dr. Ding Kunlun, Chairman, PCTA presented his report on the 37th meeting of PCTA held on 13 October as given at **Appendix III, page 75**.

33. The Council endorsed the view of PCTA that Water Accounting should be able to take into account the groundwater, which constitutes a vital role in AWM. It urged experts from member countries to make use of the tools generated under the initiative.

34. The Council endorsed the recommendation of PCTA that it should be obligatory on the part of NCs to ensure the participation of their nominated Experts in the activities of WGs and they should undertake periodical review of the contribution/participation of their experts. On the suggestion of President, the Council directed SG to explore the possibility of some of the NCs taking a lead in specific WGs and providing support to the chair to pursue the mandate of the WG.

35. The Council also endorsed that the outcomes of the technical workshops should be shared widely by publishing them in the form of an article in ICID News, etc. It also endorsed the recommendation that the SG should take up the drive to increase the membership of the WGs by writing to NCs and at the same time explore the possibility of extending concession in registration fee to identified one or two active members of well-functioning WGs.

36. The Council endorsed the recommendations of PCTA that the WG (new or extension) should be approved only, if at least 10 NCs support its activities by way of sponsoring its experts to participate in the WG's activities. It directed SG to circulate the SDs of the proposed new WGs to all the NCs for gauging their interest and support. The Council approved the revised mandates of WG-HIST and WG-SDTA as given in **Annex 5, page 51**.

37. The Council endorsed the report on the outcome of the 23rd Congress given in **Annex 6, page 53**, as recommended by PCTA. The Council noted that during the presentation of the outcomes of the Congress at the Wrap-up Session, the members had objected to the statement of "Low Irrigation efficiency not bad" under Q 61 recommendations and that there was no conclusive discussion on the subject.

IEC Minutes Item 9.4: Discussions and Decisions on the Recommendations of the Permanent Committees

38. The Council deliberated on the reports and recommendations of PFC, PCSO and PCTA together in totality and took decisions through resolutions taking note of the report of the Secretary General under Agenda Item 6.

39. The Council adopted the resolutions on the Financial Matters of ICID presented through PFC Report and on the Organizational and Technical Matters of ICID presented through the Reports of PCSO and PCTA that are placed at **Resolution IEC-1/68 and Resolution IEC-2/68 (pages 11 and 12), respectively**. The Council approved the Audited Accounts of ICID for the Financial Year 2016-17 as given in **Annex R1.1, page 15**, and the revised Budget for FY 2017-18, and the Budget for FY 2018-19 as given in **Annex R1.2, page 21**.

40. The Council approved the membership changes of various workbodies under PCSO and PCTA and consequently updated and consolidated membership of all workbodies is given at **Annex 7, page 55**.

41. Based on the PFC Report presented by its Chair, VPH Laurie Tollefson, the Council approved the admission of Afghanistan as a member of ICID, while approving provisionally the membership of Azerbaijan, Georgia and Vietnam subject to their payment of annual subscription on or before 1st January 2018.

Third Session: 14 October 2017, 13:30 – 17:30 hours

IEC Minutes Item 10: Vision to Action

42. The Council thanked the Consultative Group (CG) for preparing the “**A Road Map to ICID Vision 2030**” (http://www.icid.org/icid_vision2030.pdf), which was eventually launched by the President during the plenary session of the Council meeting. The Road Map includes an Action Plan for 2017-21 wherein the activities identified by the various WGs, RWGs, NCs and Central Office to implement the strategies to achieve the organizational goals, are tabulated.

43. The Council endorsed the PCTA recommendation emphasizing the pivotal role of the WGs in putting the vision into action. The Council desired that the WGs should incorporate the identified activities into their Action Plans suitably and at the same time develop their future activities aligned to the strategies. It is important that the WGs focus their activities towards measurable outputs, which could form part of the products that could be disseminated to the NCs.

44. The Council endorsed the recommendations of PCTA (Item 4 of PCTA Minutes) that the present mechanism of Strategy Theme leaders presenting a review on the functioning of WGs under their respective theme every year to PCTA should be used to monitor the progress of the Road Map. This mechanism should be followed rigorously and the Co-Theme Leaders should try to attend the meetings of the WGs under their respective themes, discuss with the chairs on the issues and ensure that there are no overlaps. WG Chairs to make the WG meetings technically more attractive by taking preparatory steps through virtual meetings of the WGs before preparing the agenda for the meetings.

45. Resolution reflecting the Council’s decision on the mechanism to monitor the progress on the implementation of the Action Plan is presented at **Resolution IEC-3/68, page 13**.

IEC Minutes Item 11: Task Force on Revitalization of ICID Network (TF-REV)

46. The Council noted that during its 67th meeting at Chiang Mai, it had considered the report of TF and accepted its broad recommendations and extended its term by one more year to analyze the ToRs on the reasons for the withdrawal of the European NCs in the recent past. Based on the additional inputs gathered from European NCs, the TF has finalized its report (http://www.icid.org/revitalization_report.pdf). The TF recommended that the Council may request European Regional Working Group, who are in touch with the NCs of the region and in the best position to present the possible solutions to address the issue given in the remaining ToRs of TF-REV -- ToR 3 ‘To take stock of the constitution of various NCs of Europe, and study their financial operational arrangements’ and ToR 4 on ‘To study the reasons for withdrawal of European NCs from membership of ICID in the recent past and suggest the means of retaining these countries as members of ICID’. The Council requested ERWG to come up with its findings on ToRs 3 and 4 pertaining to European NCs and present the same at the next Council meeting in 2018 and approved the closure of the TF.

IEC Minutes Item 12: Task Force to Guide the Partnership Process (TF-GPP)

47. First Meeting of High-Level Advisory Group (HLAG) on ‘Partnerships for Agriculture Water Management (AWM)’ was held on 10 October 2017 in Mexico City. The welcome notes by Mr. Roberto Ramirez de la Parra, President MXCID and Director General, CONAGUA and Dr. Saeed Nairizi, President, ICID set the tone for the meeting. Secretary General, ICID Er. Avinash C. Tyagi provided the background information leading to the

organization of High Level Advisory Group (HLAG) at Mexico City during ICID annual events. ICID put measures in place to engage all its member countries in policy-making for a sustainable water management in agriculture in a changing environment. The HLAG consisted of Ministers/ Senior officers from Irrigation and Drainage departments to deliberate and provide guidance on the process.

48. It was recalled that ICID had established a dedicated Task Force to Guide the Partnership Process (TF-GPP) in March 2017 to support HLAG mandate of developing the partnership further and in taking forward the following key initiatives:

- (a) Recognition of agricultural water management as a significant component of SDG 6 & 2.
- (b) Development of suitable advocacy practices and tools for its political prioritization and allocating higher investments in AWM and irrigation and drainage.
- (c) Development of specific AWM indicators at regional, national and local levels for sustainable development of AWM, irrigation and drainage considering changing climate and increased pressure on allocation of agricultural water.
- (d) Knowledge integration through distributed yet virtually integrated hub at partnership level to develop national/ local capacity through training and education and sharing of best AWM practices, techniques, manuals, knowledge and practical know-how.

IEC Minutes Item 13: Report of Sub-Committee on possible changes in Constitution/By-laws

49. As per the decision of the 67th IEC meeting in Chiang Mai last year, a Sub-Committee was set up with the following mandate to look at the possible changes in the Constitution and By-laws.

- (a) Granting dual membership of the members of the National Committee as well as ICID with a single subscription.
- (b) Changes in membership of the WGs, particularly with regard to admitting more than one member from a National Committee in a WG other than nominated YP member based on recommendation of the Sub-Committee to Investigate the structure, scheduling of meetings and membership of Working Groups (SC-SSMWG)
- (c) Recommendations of Task Force on Revitalization of ICID Network (TF-REV)
- (d) Recommendations of Task Force to Review the Membership Structure and Annual Membership Subscription Formulae (TF-AM); and
- (e) Any other changes that may be put up to the Committee for its consideration.

50. The Chairman of the Sub-Committee, PH Peter Lee presented the Committee's report and provided an update to the Council. He informed the Council that in accordance with Article 12 of the constitution regarding amendments to the Constitution and By-laws, the Report of the Sub-Committee had been circulated to the National Committees of ICID on 13 July 2017 (*more than 2 months in advance of the IEC meeting*), with the request to provide their comments / suggestions by 15 August 2017. The Council was informed that no comments or proposals for change had been received which indicates that the ICID members are in agreement with the proposed changes.

51. The Chairman of the sub-Committee informed the Council that the proposal from PCSO to make changes in respect of the membership of PCSO by way of including the representative of the Young Professionals as the Vice Chair of the PCSO cannot be included since the proposed amendment has not been circulated to the member NCs in advance. He suggested that the YP representative can continue as Vice Chair in the capacity of an Observer till the proposed change is circulated to all the NC members of ICID. The draft resolution reflecting the Council's decision is presented as **Resolution IEC-4/68, page 14**. The updated ICID Constitution and By-laws are accessible at http://www.icid.org/icid_constitution.pdf and http://www.icid.org/icid_bylaws.pdf, respectively.

IEC Minutes Item 14: Status of Future ICID Conferences / Congresses / Forums

52. The Council noted that it has so far approved the venues of the following future major ICID events:

- (i) 8th Asian Regional Conference, Kathmandu, Nepal, 2-4 May 2018
- (ii) 69th IEC and International Conference, Saskatoon, Canada, 12-17 August 2018
- (iii) 9th International Micro Irrigation Conference, Aurangabad, India, January 2019

- (iv) 70th IEC and 3rd World Irrigation Forum, Bali, Indonesia, 1-7 September 2019
- (v) 71st IEC and 24th Congress, Sydney, Australia, 22-28 September 2020

53. The Council was informed that the representatives of NENCID, CANCID, INCSW, INACID and IACID had appraised the progress about the preparations for the above events – financial aspects at PFC and organizational and technical aspects at C-CONGR and PCSO. The Council approved the revised registration fees in respect of these events as given in **Annex 8, page 63**.

54. The Council also noted that ICID Central Office had invited proposals from NCs for hosting the following future ICID events and no proposal had been received till the IEC meeting:

- (i) 27th European Regional Conference (2020 onwards)
- (ii) 5th African Regional Conference (2020 onwards)
- (iii) 72nd International Executive Council (2021)

55. Representative of ANAFIDE expressed its NC's willingness to organize the 5th African Regional Conference, and National Committee of Georgia who were tentatively admitted as new member by IEC expressed their desire to host 14th International Drainage Workshop. The two NCs were advised by the Council to submit their proposals to host the events in the prescribed Form A so that they could be suitably scrutinized by PFC and the concerned workbodies.

IEC Minutes Item 15: Election of the Office-Bearers 2017-2020

56. As per the provisions of Articles 7.2.3 and 7.2.4 of the ICID Constitution, Dr. Mohamed Abd-El-Moneim Wahba (Egypt); Dr. Ding Kunlun (China); Mr. Bong Hoon Lee (Korea) retired after completion of their term at the end of the Congress session. In response to the Central Office's circular inviting nominations for the positions of the three Vice Presidents for the term 2017-2020, four nominations were received by the due date of receipt i.e. 14 June 2017, in compliance with ICID By-laws 2.3.1. In order to elect three VPs out of the four candidates, an election through secret ballot was organized among the NC representatives present during the Council meeting. The Council elected Mr. Naoki Hayashida (Japan), Dr. Brian T. Wahlin (USA) and Dr. K. Yella Reddy (India) as Vice Presidents of ICID for the term 2017-2020 in the order of their seniority, based on the votes polled by each candidate.

57. In exercise of *ICID By-law 2.5 – Nomination by President*, the nomination for the position of President can be received up to one month prior to the IEC meeting. Accordingly, nomination was invited from South African National Committee of ICID (SANCID), who nominated VPH Felix Reinders for the position of President, ICID. The Executive Council elected Mr. Felix B Reinders unanimously as President, ICID for the term 2017-2020 that will commence at the culmination of the study tours etc. at the end of the 23rd Congress and come to an end at the culmination of the study tours etc. at the end of the 24th Congress (scheduled in September 2020 in Sydney, Australia).

58. President Dr. Nairizi congratulated President-elect Felix Reinders and the newly elected Vice Presidents and expressed his happiness at the outcome of the election.

IEC Minutes Item 16: Nomination of the New Secretary General, ICID

59. In accordance with the Article 7.6 of ICID Constitution dealing with the recruitment of the new Secretary General; President, as Chair of the Management Board, nominates the new Secretary General. Based on the nomination made by the President, the Council approves the nomination and appoints the Secretary General. Accordingly, the President, acting as Chair of the Management Board, presented his proposal, nominating Mr. Ashwin B Pandya as the new Secretary General. The Council approved the nomination of Mr. Ashwin B. Pandya for the appointment as the Secretary General of ICID for a three-year term, i.e. 01 January 2018 - 31 December 2020.

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

IEC Minutes Item 17.1: Retiring President and Vice Presidents

60. Citation plaques were presented to the retiring President and three Vice Presidents and outgoing Secretary General for their guidance and services rendered to the ICID activities during their tenure of Office.

Dr. Saeed Nairizi

Iran President

2014-2017

Dr. Mohamed Abd-El-Moneim Wahba	Egypt	Vice President	2014-2017
Dr. Ding Kunlun	China	Vice President	2014-2017
Mr. Bong Hoon Lee	Korea	Vice President	2014-2017
Er. Avinash C. Tyagi	India	Secretary General	2012-2017

IEC Minutes Item 17.2: Retiring Chairs of Workbodies

61. The following retiring Chairpersons of Workbodies were honoured with the presentation of citation plaques for their commendable guidance to the activities of the concerned workbodies.

1. PH Prof. Dr. Bart Schultz (The Netherlands), Chairman, SC-E-THEMES (2014-2016)
2. VPH Felix B. Reinders (South Africa), Chairman, WG-ON-FARM (2004-2016)
3. Dr. Sylvester Mpandeli (South Africa), Chairman, AFRWG (2013-2016)
4. Dr. Laszlo G. Hayde (Hungary), Chairman, ERWG (2010-2015)
5. Dr. Luis Felipe Alcocer (Mexico), Chairman, C-CONGR (2016-2017)

IEC Minutes Item 18: Any other business by the permission of the Chair

62. Speaking with the permission of the Chair, PH Peter Lee, on behalf of the Council, thanked Dr Saeed Nairizi for the leadership shown by him in laying down a Road Map for the Commission to contribute to the SDGs for a world without hunger and poverty and for ensuring water security. PH Dr. Gao Zhanyi, also speaking on behalf of the Council, expressed his appreciation for the passion with which Secretary General Mr. Avinash Tyagi lead the team at the Central Office in bringing out changes for the effective and better functioning of ICID as a network. PH Prof. Dr. Bart Schultz thanked all the outgoing office bearers for their guidance and support.



RESOLUTION IEC-1/68 [IEC Item 9.4, Para 39]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)
RESOLUTION IEC-1/68: 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 appoint VPH Laurie Tollefson as the chair of PFC for a second term of three years and approve the nomination of Dr. Marco Arcieri (Italy) as a member of PFC.
2. That the individuals and companies listed below, accorded the provisional membership by the Direct Membership Administering (DMA) Sub-Committee be admitted as members of ICID for the periods for which they have paid subscription.
 - (i) Mr. L.B. Roy (India) – Life Membership (Individual)
 - (ii) Dr Deepak Khare (India) – Life Membership (individual), Provisionally
 - (iii) Mr. Klaus Rottcher (Germany) - Individual
 - (iv) Dayu Water Saving Group Co. Ltd. (China) – Company
 - (v) Electrosteel Castings Ltd. (India) – Company
3. That the National Committees of Brazil, Saudi Arabia, Spain and Zimbabwe be declared as “Associate Members” with effect from 1 January 2018 as they have failed to contribute to ICID subscription for the last three years in accordance with By-laws 13.2.
4. To approve admission of Afghanistan as a member of ICID in accordance with ICID By-law 13.5 governing application for ICID membership.
5. To approve the Audited Accounts of ICID for the Financial Year 2016-17 as given in **Annex R1.1, page 15**.
6. To approve the Revised Budget of ICID for the Financial Year 2017-18 and the Budget for the Financial Year 2018-19 as given in **Annex R1.2, page 21**.
7. To approve the revised membership subscription formulae and other recommendations of Task Force to Review the Membership Structure and Annual Membership Subscription Formulae (TF-AM) as given in **Para 23, page 4**, under item 9.1 of IEC minutes.
8. To set up a Special Task Force to explore the feasibility of establishing business (es) related to ICID mission to generate income.

Appreciates

1. The NCs of Egypt, Thailand and Iran for contributing the appropriate share of the registration fee for 4th AfRC, the WIF2 & 67th IEC and 13th to the ICID Budget, respectively.
2. The Ministry of Water Resources, People’s Republic of China for providing a special subscription of US\$ 50,000, JNC-ICID for US\$ 5000 and KCID for US\$ 30156 for carrying out various ICID activities during the Financial Year 2016-17.

Requests

1. Requests PFC to monitor the financial sustainability of ICID more closely.
2. Management Board to constitute the Special Task Force under para 8, and set out its Terms of Reference.
3. Secretary General to take early action to revive the FCRA Registration of ICID so that ICID could receive grants.



RESOLUTION IEC-2/68 [IEC Item 9.4, Para 39]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)****RESOLUTION IEC-2/68: 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;

Considering the endorsement by the Management Board; and

Decides unanimously

1. To approve membership of Azerbaijan, Georgia and Vietnam provisionally subject to their paying annual subscription on or before 01 January 2018.
1. To approve the comprehensive Technical Support Program (TSP) as given in **Annex R2.1, page 23**.
2. To approve the re-establishment of two existing workbodies: (i) Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST) and Working Group on Sustainable Development of Tidal Areas (WG-SDTA), with revised mandates as given in **Annex 5, page 51**.
3. To approve the recommendations of TF-REV and assign its remaining ToRs 3 and 4 to study the financial operational arrangements of European NCs and the reasons for withdrawal of them from membership of ICID in the recent past to ERWG.
4. To approve the closure of Committee on Public Relations and Publications (C-PR&P) and TF-REV with immediate effect.
5. To task SC-E-THEMES to also address the following issues in its terms of reference:
 - a. To work out the structure of meetings related to IEC, particularly the WGs at the ICID's Annual Events, to make them more effective,
 - b. To draw Guidelines to make the WG meetings/sessions technically richer and beneficial to the stakeholders and industries by exploring the ways of combining the meetings of workbodies with areas of common interest or holding webinars, etc.

Appreciates

1. The Korean Rural Community Corporation (KRC) to support the activity of TSU.

Requests

1. National Committees to contribute towards the Fund created for undertaking activities of the Technical Support Program (TSP) and take full advantage of its establishment of the Unit. Urges NCs to depute volunteers from time to time to undertake the activities of TSP.
2. Management Board to revise the Terms of Reference of SC-E-THEMES and co-opt members, if necessary.



RESOLUTION IEC-3/68 [IEC Item 10, Para 45]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)
RESOLUTION IEC-3/68: A ROAD MAP TO ICID VISION 2030****THE Council**

Considering the Report of the Consultative Group to develop Draft ICID Vision 2030 Document set up by President ICID, in consultation with Secretary General, ICID as per Article 3.9.8 of ICID By-laws, vide Notification No.9 of 2014 dated 26 November 2014,

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

Decides unanimously,

1. To encourage WGs to monitor the progress of 'Activities identified under Various Strategies for Action Plan 2017-21' appended to 'A Road Map to ICID Vision 2030' and report to their respective Permanent Committees.
2. To make use of the process of yearly and quadrennial review of the workbody activities by Strategy Theme Leaders to monitor the progress simultaneously and report to IEC.

Requests

1. All National Committees to use the platform of the meeting of Office-Bearers with National Committees to exchange and share their experiences in implementing the Action Plan



RESOLUTION IEC-4/68 [IEC Item 13, Para 51]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)****RESOLUTION IEC-4/68: CHANGES IN THE CONSTITUTION AND BY-LAWS OF ICID****THE Council**

Considering the Report of the Sub-Committee to look into the possible changes in Constitution and By-laws, established as per the decision of 67th IEC meeting in Chiang Mai, Thailand on 12 November 2016.

Noting the endorsement of the Management Board and the Office-Bearers Committee,

Decides unanimously

1. To adopt the amendments to the Article 2.1 - Vision, Article 2.2 - Mission, Article 2.3 - Organizational Goals; Article 2.4 - Scope; Article 3.3 – Membership, Articles 4.1 & 4.2 – Composition of National Committees; Articles 5.1 & 5.2 – Direct Members; Article 6.12 – IEC; Article 7.11 – Notification to Banks; Article 7.18 – Secretary General: Responsibilities; and Article 11.1 – Annual Subscriptions as listed in **Annex R4.1, page 33**.
2. To adopt the amendments to the By-laws 3.1 – Limitation on Members; By-laws 3.9.4 (b) – Permanent Committee for Technical Activities (PCTA); By-laws 3.9.5 (a)&(c) - The Permanent Committee on Strategy and Organization (PCSO); By-laws 4.1.2 (i) – Contents of Agenda; By-laws 5.8 (5.8.2 (c)&(e)) – Obligations of the Host National Committee; By-laws 5.9 (5.9.2(b)) – Transactions of a Congress/Forum; By-laws 9 (9.2&9.3) – Form of Application for Membership; By-laws 10 (10.1&10.2) – Participation of Non-Members in a Congress/Forum and By-laws 13.2 – Three Years in Arrears of the ICID By-laws as listed in **Annex R4.1, page 33**.

Requests

3. Secretary General to update the ICID Constitution and ICID By-laws accordingly and upload on the website and intimate the Registrar of Cooperative Societies, Government of India as per Societies Registration Act, 1860.



INDEPENDENT AUDITOR'S REPORT**P.K. Chopra & Co.
Chartered Accountants (Registered)**

To

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

Report on Financial Statements

We have audited the accompanying financial statements of **International Commission on Irrigation and Drainage (ICID-CIID)** ("the society"- PAN AAAAI1084P), which comprise the Balance Sheet as at 31st March 2017, Income & Expenditure, Receipt and Payment for the year then ended and other explanatory information.

Management Responsibility for the Financial Statements

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 includes the design, implementation and maintenance of internal control 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 Society'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 the 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 financial statements give the information required by the Act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India.

1. In the case of Balance Sheet, of the state of affairs of the Society as at March 31, 2017; and
2. In the case of Income and Expenditure Account, of the excess of income over expenditure for the year ended on that date;
3. And in case of the Receipts and Payments Account, of the Receipts and Payments for the year ended on that date, 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 accounts 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 and Expenditure, and Receipts and Payment dealt with by this report are in agreement with the books of account.
- (d) In our opinion, the Balance Sheet, Income and Expenditure, comply with the relevant Accounting Standards.

Place: New Delhi.

For **P.K. Chopra & Co.**
Chartered Accountants
FRN: 006747N

Date: 30th May 2017

Sd/-
Tarun Kandhari
Partner
Membership No. 074852

**INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE
BALANCE SHEET AS ON 31ST MARCH 2017**

PARTICULARS		2016-17 Amount INR	2015-16 Amount INR
ASSETS			
Property & Equipment	1	11,266,479	11,413,117
Receivables	2	18,548,685	12,969,440
Stock of Publications	3	251,130	241,800
Bank Balances & Cash in Hand	4	75,760,428	67,442,621
Subscription Accrued		3,095,246	3,083,580
	Total Assets	108,921,968	95,150,558
LIABILITIES			
Gulhati Memorial Lecture Fund	5	391,359	362,618
General Fund	6	55,056,122	48,890,317
Project Funds	7	-	228,913
Gratuity Fund	8	7,285,304	9,340,742
Leave Encashment Fund	9	5,723,148	-
Corpus Fund-WID Prizes	10	2,432,501	1,644,395
Security From Tenant	11	24,632,200	21,230,000
Subscription Received in Advance	12	4,086,770	2,939,243
Sundry Creditor, Payables & Provisions	13	9,271,440	10,496,051
Duties & Taxes Payable	14	43,124	18,279
	Total Liabilities	108,921,968	95,150,558

As per our separate Report of even date
attached

For and on behalf of
International Commission on Irrigation and Drainage (ICID)

For P.K. Chopra & Co.

Chartered Accountants

Firm Registration No. 006747N

Sd/-

Tarun Kandhari

Partner

Membership No. 074852

Sd/-

Vijay K. Labhsetwar

Director

Sd/-

Avinash C. Tyagi

Secretary General

Places: New Delhi

Dated: 30th May 2017

**INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE
INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR FROM 1ST APRIL 2016 TO 31ST MARCH 2017**

PARTICULARS		2016-17 Amount INR	2015-16 Amount INR
INCOME			
Membership & Subscriptions	15	16,771,646	21,169,513
Sale of Publication	16	1,166,292	830,347
Special Contribution to the Budget	17	5,513,406	2,081,507
Interest on Fixed Deposits	18	3,245,951	4,691,434
Other Incomes	19	1,090,061	4,490,524
Rent and Provision of Services on Let Out Property		47,725,895	39,992,127
Special Subscriptions	20	3,896,642	-
Closing Stock	3	251,130	241,800
Total		79,661,023	73,497,252
EXPENDITURE			
Opening Stock of Publications	3	241,800	273,600
Compensation for Secretary General	21	3,667,644	3,320,081
Salaries & Allowances	22	28,645,480	18,322,443
Superannuation Relief to Retd. Employees		3,541,647	3,013,507
Service & Maintenance	23	4,543,796	5,203,681
Taxes and Utilities	24	16,773,753	24,343,110
Rehabilitation or Refurbishing and Maintenance of ICID CO Building	25	255,108	1,104,185
Publication, Knowledge Management and Dissemination	26	3,457,695	2,894,876
Conference Expenditure	27	1,459,985	1,089,786
Cooperation with Other Organization	28	54,071	-
Travel Expenditure	29	862,574	2,142,912
Depreciation on Fixed Assets	1	1,514,683	1,592,426
Workshop, Training and Studies	30	554,526	2,715,261
Other Expenditure	31	4,829,209	137,358
Excess of Income over Expenditures		9,259,052	7,344,026
Total		79,661,023	73,497,252

As per our separate Report of even date
attached

For P.K. Chopra & Co.

Chartered Accountants

Firm Registration No. 006747N

Sd/-

Tarun Kandhari

Partner

Membership No. 074852

Places: New Delhi

Dated: 30th May 2017

For and on behalf of
International Commission on Irrigation and Drainage (ICID)

Sd/-

Vijay K. Labhsetwar

Director

Sd/-

Avinash C. Tyagi

Secretary General

**INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE
RECEIPT AND PAYMENT ACCOUNT
FOR THE YEAR FROM 1ST APRIL 2016 TO 31ST MARCH 2017**

PARTICULARS		2016-17 Amount INR	2015-16 Amount INR
RECEIPTS			
Cash & Banks (Balance Brought Forward)	31	67,442,621	61,413,339
Membership Subscriptions	32	15,170,429	14,176,234
Sale of Publications	33	80,988	823,217
Special Contribution to the Budget	34	5,096,124	2,081,507
Interest on Fixed Deposits	35	3,732,251	4,805,032
Special Subscription		3,743,474	6,270,123
Other Receipts	36	5,470,196	7,017,318
Rent and Provision of Services on Let Out Property		47,040,531	39,027,627
Income Tax Refund	37	305,180	4,405,085
Total		148,081,793	140,019,482
PAYMENTS			
Compensation package for Secretary General		3,656,094	3,320,081
Salaries and Allowances	38	24,727,620	18,371,843
Superannuation Relief to Retired Employees		3,541,647	3,013,507
Services & Maintenances	39	4,782,454	5,126,683
Taxes and Utilities	40	25,929,090	23,754,878
Rehabilitation or Refurbishing and Maintenance of ICID CO Building	41	255,108	1,104,185
Publications, Knowledge Management and Disseminations	42	3,457,695	2,884,876
Conference Expenditure	43	1,013,356	894,678
Cooperation with Other Organisation	44	54,071	-
Travel Expenditure	45	862,574	2,493,886
Special Subscription		-	7,969,198
Workshops, Trainings and Studies	46	494,520	2,915,261
Purchase of Fixed Assets	47	177,474	624,158
Other Payments	48	3,369,661	103,627
Cash & Banks (Balance Carry Forward)	31	75,760,429	67,442,621
Total		148,081,793	140,019,482

As per our separate Report of even date
attached

For P.K. Chopra & Co.

Chartered Accountants

Firm Registration No. 006747N

Sd/-

Tarun Kandhari

Partner

Membership No. 074852

Places: New Delhi

Dated: 30th May 2017

For and on behalf of
International Commission on Irrigation and Drainage (ICID)

Sd/-

Vijay K. Labhsetwar

Director

Sd/-

Avinash C. Tyagi

Secretary General

**APPROVED REVISED BUDGET 2017-2018 AND APPROVED BUDGET 2018-2019
AND PRELIMINARY BUDGET 2019-2020 AND FORECAST BUDGET 2020-2021**

		Approved Revised Budget 2017-2018	Approved Budget 2018-2019	Preliminary Budget 2019-2020	Forecast Budget 2020-2021
			₹	₹	₹
I	RECEIPTS				
	1. Membership Subscriptions	17,266,000	19,968,000	20,028,000	20,094,000
	2. Sale of Publications	2,309,304	1,344,000	1,476,000	1,621,000
	3. Special Contribution to ICID Budget	7,000,000	3,399,000	9,504,000	16,698,000
	4. Interest on Fixed Deposits	4,798,000	5,546,000	5,791,000	5,791,000
	5. Other Receipts	2,026,934	2,421,410	5,842,000	1,405,000
	6. Rent and Maintenance Charges	49,264,000	49,264,000	56,461,000	56,461,000
	TOTAL RECEIPTS	82,664,238	81,942,410	99,102,000	102,070,000
II	EXPENDITURE				
	1. Compensation Package for Secretary General	5,135,000	6,819,000	5,771,000	6,118,000
	2. Salaries and Allowances	35,622,980	35,349,000	36,631,000	39,667,000
	3. Superannuation Relief to Retired Employees	5,243,000	4,882,000	5,175,000	5,486,000
	4. Service & Maintenance	7,191,000	7,341,000	7,770,000	8,129,000
	5. Taxes & Utilities	17,470,000	17,525,000	20,005,000	20,236,000
	6. Rehabilitation, Refurbishing and Maintenance of ICID CO Building	3,100,000	1,500,000	1,800,000	500,000
	7. Publication, Knowledge Management and Dissemination	4,741,000	4,417,000	5,104,000	4,797,000
	8. Conference Expenditure	3,500,000	2,100,000	2,700,000	3,200,000
	9. Cooperation with Other Organisations	330,000	330,000	395,000	330,000
	10. Travel Expenditure	1,800,000	2,200,000	2,650,000	2,650,000
	11. Purchase of Office Equipments	1,720,000	800,000	800,000	800,000
	12. Workshops, Training and Studies	1,800,000	2,500,000	2,500,000	2,500,000
	13. Other Expenditure	640,000	142,000	144,000	396,000
	TOTAL EXPENDITURE	88,292,980	85,905,000	91,445,000	94,809,000
	Surplus/(Deficit)	(5,628,742)	(3,962,590)	7,657,000	7,261,000



TECHNICAL SUPPORT PROGRAM (TSP)

I. Background

1. The great challenge for the coming decades will be to increase food production with less water, particularly in countries with limited water and land resources. The effective and sustainable use of water for agriculture has become a global priority of vital importance, requiring urgent and immediate solutions in view of intensifying competition. The importance of Capacity Development for attaining sustainable developments in irrigation, drainage and flood management sectors is fully understood. The consensus among policy-makers in the developing world is that a lack of capacity is constraining the development of irrigated agriculture. Although this concern is not new, it is now receiving much attention in the irrigation and drainage world, where it is becoming an issue in its own right due to the increasing complexities of development, multi-disciplinary nature sustainable solutions, the close linkages between water-food-energy, rapid changes in the irrigation and drainage sector, the need to bring together various stakeholders who might not necessarily be experts. Moreover many countries are facing shortage of qualified technical persons

II Technical Support Program

2. The National Committees of ICID have expressed the need for professional guidance and support from ICID in initiating certain studies and activities. In order to meet this requirement a Technical Support Program is established by ICID. The objective of the Program will be to:

“Undertake capacity development activities in the field of agriculture water management (AWM) in support of rural development”.

3. Technical Support Programme will be implemented by the Technical Support Unit (TSU) which was set up vide ICID notification no. 1/2016 under WG-CDTE with the approval of the International Executive Council (IEC) at its 66th meeting held on 16 October 2015 at Montpellier, France vide IEC Resolution 3/66. keeping in view the need of capacity building, education and awareness of technical staff working in the field of agriculture water management.

4. The scope of work and expected outputs/deliverables of TSP are as follows:

- (a) Support the member countries in:
 - (i) general assessment of gaps in AWM capacities within the countries and suggest possible solutions;
 - (ii) developing feasibility reports for small and medium irrigation, drainage and flood management proposals;
 - (iii) training needs assessment; and
 - (iv) undertaking capacity development programmes.
- (b) Coordinate and execute capacity development programs of ICID under the overall guidance of WG-CDTE and administrative directions of the Core Group; and
- (c) Develop a knowledge base of AWM with the help of ICID working groups, partner institutions and member countries.

III Core Group

5. A Core Group with the following Composition and Terms of Reference (ToR) has also been set up to guide activities under Technical Support Program :

Composition

- | | | |
|-----|-------------------------|------------|
| (a) | President, ICID | - Chairman |
| (b) | Chair, PCTA | - Member |
| (c) | Chair, PCSO | - Member |
| (d) | Chair, AFRWG | - Member |
| (e) | Chair, ASRWG | - Member |
| (f) | Chair, WG-CDTE | - Member |
| (g) | Secretary General, ICID | - Convener |

In addition, the representatives (maximum two at a time) of Financial partner contributing to CDF, particularly supporting specific activities, will be co-opted by the President.

Terms of Reference (ToR)

- (i) Finalizing and prioritizing the work program of TSU;
- (ii) Review and monitor progress of activities of TSU;
- (iii) Take administrative and financial decisions regarding the engagement of volunteers and other experts; and
- (iv) Support resources generation and take all financial decisions

IV Mechanism

6. **Technical Support Unit (TSU)**, will serve to execute the activities under TSP. TSU will consist of distributed network of short-term and long term expert volunteers, who commit to dedicate a maximum of ten man-days for short-term and up to 6 months as long-term experts to the TSU activities. The activities will be supported by a Coordination Unit (CU) established within the Central Office. NCs and other members, including partner institutions, will be requested to depute personnel to the CU of TSU from time to time, as required. Broad terms of reference of long term expert indicating scope of deputation of experts, financial aspects etc. is at **Annexure A**, which also include nomination form (**Annexure B**). Long-term Experts/ professionals will be paid a suitable honorarium in accordance with the Government of India rules, payable by Non-government organization, non-profit organizations such as ICID and approved by the Core Group.

7. Nomination forms for deputation of short term experts is at **Annexure C**. Since short term experts will provide voluntary contributions to the activities of the TSU, ICID will provide honorarium (US\$ 100–150) to them for delivering lectures and preparing lecture material in addition to economy class air fare along with Boarding and Lodging by the Recipient NC. The travel of the expert volunteers in connection with TSU activity and honorarium for the experts, will be supported through CDF.

8. **Request for support from TSU**. In order to get support from the TSU, NCs seeking support from the TSU will submit their request in the prescribed form (**Annexure D**) providing information related to the type of audience who would be benefitting from the program, brief outline of the Program for which support is sought, areas where the external expertise is required, contribution of the recipient NC to the cost of the experts, etc. in a structured format in order to facilitate processing of the request.

9. The status of the requests received from NCs will be maintained in a 'Request Register'. The first priority will be given to the requests where the Recipient NC is ready to provide full financial support for services of the experts in terms of travel, accommodation etc. and involvement of the TSU will essentially be that of facilitation and identifying the experts. The prioritization for support by TSU will be as follows:

- (a) Trainings and Workshops in the recipient country fully funded by the Recipient NC
- (b) Trainings and Workshops in the recipient country partially supported by the Recipient NC
- (c) Study and preparation of the Report on the Capacity Development Needs in a Country
- (d) Preparation of pre-feasibility proposals for small irrigation schemes

10. In case of multiple requests from a particular NC, as far as possible equity will be maintained keeping in view the constraints of the funds. Immediately after receiving the request, TSU will identify the experts in consultation with the Chair/Vice Chairs of the concerned WG. Based on the suggestions received and the roster of short term experts available, the TSU will facilitate the process and depute expert(s) to the Recipient NC for supporting the programme/activity of the NC.

V Fund

11. In order to ensure smooth functioning of TSU, a **Capacity Development Fund (CDF)** is established for the activities of TSU. The Fund will be supported by member countries on a voluntary basis.



Annexure A to Annex R2.1, Para 6

**Terms of Reference for Engaging Expert for
TECHNICAL SUPPORT UNIT (TSU) IN ICID CENTRAL OFFICE**

Post Title: Expert (Agricultural Water Management)
Duty Station: ICID Central Office, New Delhi, India
Duration: Six months (*initially*)

TERMS OF REFERENCE (TOR)

1. Background

The National Committees of ICID have expressed the need for professional guidance and support from ICID in initiating certain studies and activities. Accordingly, the 66th ICID's International Executive Council meeting held on 16 October 2015 at Montpellier, France, approved the setting up of a Technical Support Unit in ICID vide IEC Resolution 3/66 keeping in view the need of capacity building, education and awareness of technical staff working in the field of agriculture water management. The objective and scope of activities of TSU are as given in the Technical Support Program scheme.

2. Deputation of Expert to Technical Support Unit (TSU)

As per decision of IEC (Resolution 3/66, TSU is being set up in ICID at its Central Office located in Delhi with deputation of experts on short term on voluntary basis from interested National Committees. Brief description of scope of activities and other terms and conditions is given below:

2.1 Broad scope of deputation of expert to TSU

National Committees / Committee are requested to consider deputing their mid-level experts for short term to support activities of TSU on capacity development programme in agricultural water management for least developed countries in Africa and Asia including support to development of proposals for small scale irrigation, flood management and drainage at feasibility level. Broad ToR of experts is given below:

- (a) The Expert nominated by the National Committee / Committee to Technical Support Unit (TSU) will be working on voluntary basis for an initial period of six months.
- (b) Expert should be professionally qualified in the field of Agricultural or Water Resources Engineering, preferably, post-graduate
- (c) At least 10 years work experience in dealing with agricultural and water management issues having experience in the areas of research, capacity development, training, project planning and development etc.
- (d) The Expert should be in the age group of 40 to 50 years of age.
- (e) The Expert should be fluent in Spoken and Written English and computer savvy.

2.2 Financial aspects

The Sponsorship Organisation has to bear all the financial expenses of the expert in terms of salary and allowances, travel expenses, per diem, accommodation, local transport, insurance etc., to undertake the assignment. However, ICID will pay an honorarium of Rs.10, 000/- (US \$ 150) {as per Government of India norms} per month.

2.3 Documents

While deputing expert to TSU, the National Committee may kindly furnish Curriculum Vitaé (CV) of the applicant along with the following documents:

- (a) Educational qualification
- (b) Experience profile
- (c) Copy of passport

The condition for grant of visa for working in India for NGOs and other organizations is available at: <http://mha1.nic.in/foreignDiv/OverviewVisa.html>



Annexure B to Annex R2.1, Para 6

TECHNICAL SUPPORT UNIT IN ICID CENTRAL OFFICE

APPLICATION FORM FOR LONG-TERM EXPERTS

A. Applicant’s personal and experience details

1. Personal Information

Name	
Position	
Organization / Department	

Gender Male Female

Date of birth: Day Month Year

Nationality

Contact details including e-mail

Passport Details <i>(attach a copy)</i>	Number	Validity		Issuing authority	

2. Educational background and experience (Attach brief CV):

- (i) Degree & above:
- (ii) Brief details of experience in the field of agricultural water management, flood management, drought and related areas with expertise in research, capacity development, training, project planning and development, *(use separate sheet, if required.)*:
- (iii) Specify experience on development of proposals for small scale irrigation, flood management and drainage at feasibility level, if any:
- (iv) Experience of working in least developed countries in Africa and Asia, if any:

3. Other details (please specify):

	Fair	Good	Excellent
Knowledge of English			
Spoken			
Written			

- i. Are you willing to work in least developed countries of Africa and Asia on short term basis?

Date: _____ Signature: _____

B. Recommendation by Sponsoring Organisation

Mr / Ms _____ is sponsored to work in Technical Support Unit of ICID, New Delhi. This is to certify that the above information is correct best to our knowledge. We undertake to bear all financial expenses of the expert in terms of salary and allowance, travel expenses, per diem, accommodation, local transport, insurance etc. to undertake the assignment.

Name of the person

Position

Name of Sponsoring Organization

Date: _____

Signature: _____

C. Recommendation by the ICID National Committee

Mr / Ms _____ is recommended to work in Technical Support Unit of ICID, New Delhi.

Name of the person

Position

Name of National Committee

Date: _____

Signature: _____



Annexure C to Annex R2.1, Para 7

**TECHNICAL SUPPORT UNIT IN ICID CENTRAL OFFICE
NOMINATION FORM FOR SHORT TERM EXPERT**

A. Personal and experience details

1. Personal Information

Name	
Position	
Organization / Department	

Gender Male Female

Date of birth: Day Month Year

Nationality
Contact details including e-mail

Passport Details <i>(attach a copy)</i>	Number	Validity	Issuing authority	
---	--------	----------	-------------------	--

2. Educational background and experience (Attach brief CV):

- (i) Degree & above:
- (ii) Brief details of experience in the field of agricultural water management, flood management, drought and related areas with expertise in research, capacity development, training, project planning and development, *(use separate sheet, if required.)*:
- (iii) Specify experience on development of proposals for small scale irrigation, flood management and drainage at feasibility level, if any:
- (iv) Experience of working in least developed countries in Africa and Asia, if any:

3. Expertise in fields related to Agriculture Water Management (select any three)

- Agronomy related aspects
- Bio-Drainage
- Climate Change Adaptation
- Drainage
- Development of Tidal Areas for Agriculture
- Drought Management
- Environmental Aspects of Irrigation & Drainage
- Flood Management
- Irrigation Development & Management
- On-Farm Management

- Participatory Irrigation Management
- Use of Poor Quality Water in Agriculture
- Any other (Please specify)

4. Knowledge of Languages (please specify):

Languages	Fair	Good	Excellent
i. English			
Spoken			
Written			
ii. French			
Spoken			
Written			
iii. Any other			
Spoken			
Written			

iv. Are you willing to work in least developed countries of Africa and Asia on short term basis?

Date: _____

Signature: _____

B. Recommendation by Sponsoring Organisation

Mr. _____ is sponsored as Short Term Expert (upto 10 days) to support activities of the Technical Support Unit of ICID, New Delhi. We undertake to bear financial expenses of the expert in terms of salary and allowance during period of assignment.

We understand that ICID / Host country will make arrangement for travel and accommodation and Expert would be paid honorarium as per ICID norm.

Name of the person

Position

Name of Sponsoring Organization

Date: _____

Signature: _____

C. Recommendation by the ICID National Committee

Mr. _____ is recommended to work as Short Term Expert to support activities of Technical Support Unit of ICID, New Delhi.

Name of the person

Position

Name of National Committee

Date: _____

Signature: _____

Annexure D to Annex 3, Para 8

**TECHNICAL SUPPORT UNIT IN ICID CENTRAL OFFICE
REQUEST FORM FOR NATIONAL COMMITTEES**

1. Name of the National Committee

2. Request submitted for (please ✓ applicable one and insert the title in the box below):

- (a) Workshop/ Training in the Country
- (b) Exchange Visit to another NC
- (c) Study/ Gap Analysis of Capacity Development in the country
- (d) Pre-feasibility report preparation

3. Topics of the Workshop/Training or the Scope of the Study

4. Target audience for the Workshop/Training:

5. Approximate dates and duration of the event

(Please give 6 months advance notice and a flexible time schedule):

6. Priority of the request (if more than one request is submitted in a given financial year):

7. Please indicate which of the following costs the NC will be able to meet (please ✓ applicable box):

No.	Item	Yes	No	N/A
1	International Air Travel costs by Economy Class			
2	Internal travel/transportation costs (within the country)			
3	Boarding and Lodging of the Experts			
4	Training material including its reproduction			
5	Honorarium to the Expert			
6	Videography of the lecture proceedings			
7	Surveys or studies required from local experts			

8. Outline of the proposed Training/Workshop/Study

(Also, please *attach* a brief outline of the event or study, the list of topics of lectures, the lectures taken by local experts and those required from ICID-TSU External Experts):

Attached Not attached

9. Other National Institutions involved in the activity:

10. Contact person for the activity:

11. Any additional information:

Signed/submitted by:

President/Chair/Secretary-General/Secretary
of the National Committee/Committee

(Please affix the signature)

Place:

Date:



**REPORT OF THE
SUB-COMMITTEE TO LOOK AT THE POSSIBLE CHANGES
IN CONSTITUTION / BY-LAWS**

A. BACKGROUND

The International Executive Council at its 67th meeting held in Chiang Mai, Thailand on 12 November 2016, approved the 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.

The Council also noted the suggestion by PCTA to allow more than one member from one NC in a WG and 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 and changes, if any, required to be taken up in the Constitution or By-laws that would be presented at the Mexico meeting of the Council.

Following 67th IEC's observations and decision, the Management Board at its first Virtual Meeting (MB1/17) held on 17 January 2017 constituted a Sub-Committee to look at the possible changes in Constitution and By-laws and to come up with suitable amendments, notified vide Notification No.7 of 2017 dated 20 April 2017. The composition and mandate of the Committee, thus constituted are given below:

Composition

1. President Hon. Peter Lee	Chair
2. VPH Felix Reinders	Member
3. VP Bong Hoon Lee	Member
4. VPH Ragab Ragab	Observer
5. Er. Avinash C. Tyagi	Member Secretary

Mandate

- (i) Granting dual membership of the members of the National Committee as well as ICID with a single subscription.
- (ii) Changes in membership of the WGs, particularly with regard to admitting more than one member from a National Committee in a WG other than nominated YP member based on recommendation of the Sub-Committee to Investigate the structure, scheduling of meetings and membership of Working Groups (SC-SSMWG)
- (iii) Recommendations of Task Force on Revitalization of ICID Network (TF-REV)
- (iv) Recommendations of Task Force to Review the Membership Structure and Annual Membership Subscription Formulae (TF-AM)
- (v) Any other changes that may be put up to the Committee for its consideration.

B. RECOMMENDATIONS

4. The Committee considered the issues of granting dual membership and deliberated on the recommendations of TF-REV and SC-SSMWG at its Virtual meeting held on 30 June 2017. Accordingly, the Sub-Committee suggested suitable amendments to the existing Constitution and By-laws that have been in force since 2014. The Committee has taken special care in defining terms such as 'dual membership' and 'National Committee' in order to capture the intent and purpose in its entirety.

5. To have an 'at a glance' look, the existing text and proposed amendments suggested by the Committee are given side by side in a tabulated form at **Annexures 1 and 2** of this report.

6. The constitution and by-laws in its complete form, clearly indicating the changes proposed by the Sub-Committee which can be accessed or downloaded from http://www.icid.org/icid_constitution.pdf and http://www.icid.org/icid_bylaws.pdf.



Annexure 1 to Annex R4.1 (Para 5)

EXISTING / PROPOSED CHANGES IN ICID CONSTITUTION

Sl. No.	Existing	Proposed Changes	Comments by National Committees, if any
1	<p>ARTICLE (2) – OBJECTS</p> <p>Mission</p> <p>2.1 The Mission of the International Commission on Irrigation and Drainage is to stimulate and promote the development of the arts, sciences and techniques of engineering, agriculture, economics, ecology and social science in managing water and land resources for irrigation, drainage, flood management and river training applications, including research and development and capacity building, adopting comprehensive approaches and up-to-date techniques for sustainable agriculture in the world.</p>	<p>ARTICLE (2) – OBJECTS</p> <p>Vision</p> <p>2.1 The Vision of the International Commission on Irrigation and Drainage is a "Water secure World, free of poverty and hunger through sustainable rural development".</p> <p>Mission</p> <p>2.2 The Mission of the International Commission on Irrigation and Drainage is to work together towards sustainable agriculture water management through inter-disciplinary approaches to economically viable, socially acceptable and environmentally sound irrigation, drainage and flood management.</p> <p>Organisation Goals</p> <p>2.3 The Commission set following six organisation goals to achieve its vision and mission:</p> <ul style="list-style-type: none"> (i) Enable higher crop productivity with less water and energy (ii) Be a catalyst for change in policies and practices (iii) Facilitate exchange of information, knowledge and technology (iv) Enable cross disciplinary and inter-sectoral engagement (v) Encourage research and support development of tools to extend innovation into field practices (vi) Facilitate capacity development 	<p>Taking recognition of the ICID Vision 2030 adopted by IEC in its 66th Meeting in Montpellier</p>
2	<p>Scope</p> <p>2.2 The Commission in achieving its mission may consider the following objectives:</p>	<p>Scope</p> <p>2.4 The Commission in achieving its vision and mission may consider the following objectives:</p>	<p>Taking recognition of the ICID Vision 2030 adopted by IEC in its 66th Meeting in Montpellier</p>
3	<p>2.3 The Commission will accomplish its mission by:</p>	<p>2.5 The Commission will accomplish its vision and mission by:</p> <p>Added:</p> <p>(g) Promoting capacity development programmes and encouraging participation of Young Professionals in agriculture water management sector as well as activities of the Commission, and</p>	<p>Taking recognition of the ICID Vision 2030 adopted by IEC in its 66th Meeting in Montpellier</p>
4	<p>ARTICLE (3)– MEMBERSHIP</p> <p>Basis of Membership</p> <p>3.3 Individuals, institutions and companies from those countries that are not a Member of ICID, or those countries where the constitution of the National Committee does not have provision for the participation of individuals, institutions or companies, can become a direct member (Article 5) of ICID, provided they abide by the constitution of ICID.</p>	<p>ARTICLE (3)– MEMBERSHIP</p> <p>Basis of Membership</p> <p>3.3 Individuals, institutions and companies that actively participate in the activities of the National Committees automatically become constituent members of ICID. Individuals, institutions and corporates from those countries that are not a Member of ICID, or those countries where the constitution of the National Committee does not have provision for the participation of individuals, institutions or companies, can become a direct member (Article 5) of ICID, provided they abide by the constitution of ICID.</p>	<p>Dual membership is defined as "constituent members". NEW</p>
5	<p>ARTICLE (4) – NATIONAL COMMITTEES</p> <p>Composition</p> <p>4.1 Each National Committee may be constituted in the manner desired by each country in conformity with the</p>	<p>ARTICLE (4) – NATIONAL COMMITTEES</p> <p>Composition</p> <p>4.1 Each National Committee may be constituted in the manner desired by each country in conformity with the provisions of this Constitution but it is recommended that, as far</p>	

Sl. No.	Existing	Proposed Changes	Comments by National Committees, if any
	provisions of this Constitution but it is recommended that, as far as possible, each National Committee shall be composed of representatives of officers of government(s), technical and scientific organizations, government and non-government institutions, irrigators, companies and individuals with interests concerned with, or desirous of promoting and furthering the mission and objectives of the Commission.	as possible, each National Committee shall be composed of representatives of government departments, technical and scientific organizations, government and non-government institutions, irrigators, companies and individuals with interests concerned with, or desirous of promoting and furthering the vision mission and objectives goals of the Commission. Added: 4.2 A National Committee may be constituted by a group people (minimum 12) having an interest in furthering the vision and goals of the Commission and willing to work voluntarily, provided they satisfy the Commission of the group's position to represent the country and act effectively as a National Committee. The National Committee shall provide appropriate documentation of its constitution and registration in accordance with the laws and customs of the country."	New Definition of NCs is proposed for those countries where Govt institutions are not in the forefront and professionals in the country wish to come together to form a NC
6	ARTICLE (5) – DIRECT MEMBERS 5.1 Direct membership of the Commission may comprise: (a) Individual Members; (b) Corporate Members; or (c) Institutional Members.	ARTICLE (5) – DIRECT MEMBERS 5.2 Direct membership of the Commission may comprise: (d) Direct Individual Members; (e) Direct Corporate Members; or (f) Institutional Members.	{ <i>Comment: Moved to By-law Clause 9.2</i> }
7	5.3 Direct membership shall be open to any individual, institution or companies that meet the criteria of articles 3.3 and 3.4. In addition to individuals, direct members may comprise government and non-government institutions; technical, scientific and educational organisations; and private companies or private institutions/ organisations with interests in and desirous of promoting and furthering the mission and objectives of the Commission.	5.2 Direct membership shall be open to any individual, institution or companies corporate body that meet the criteria of articles 3.3 and 3.4. In addition to individuals, direct members may comprise government and non-government institutions; technical, scientific and educational organisations; and private companies or private institutions/ organisations with interests in and desirous of promoting and furthering the mission and objectives of the Commission.	
8	ARTICLE (6) – INTERNATIONAL EXECUTIVE COUNCIL Decisions 6.12 In the interest of furthering the mission and objectives of the Commission, the Council may take all such action as it may consider necessary within the framework of this Constitution.	ARTICLE (6) – INTERNATIONAL EXECUTIVE COUNCIL Decisions 6.12 In the interest of furthering the vision, mission and objectives goals of the Commission, the Council may take all such action as it may consider necessary within the framework of this Constitution.	
9	Notification to Banks 7.11 Information about the exigency mentioned in Articles 7.9 and 7.10 will be given to the Banks by the President, in order to enable the continuance of operations on the accounts of the Commission by a designated employee until the recovery of the Secretary-General or the appointment of the new Secretary-General as the case may be. The Banks shall also be informed that instead of the Secretary-General, until further notice, the President, shall act as the First Trustee of the ICID Contributory Provident fund.	Notification to Banks 7.11 Information about the exigency mentioned in Articles 7.9 and 7.10 will be given to the Banks by the President, in order to enable the continuance of operations on the accounts of the Commission by a designated employee until the recovery of the Secretary-General or the appointment of the new Secretary-General as the case may be. The Banks shall also be informed that instead of the Secretary-General, until further notice, the President, shall act as the First Trustee of the ICID Contributory Provident fund.	{ <i>Comment: No more required</i> }
10	Secretary-General: Responsibilities 7.18 In addition to other duties outlined herein, the Secretary-General shall be directly responsible for the promotion of	Secretary-General: Responsibilities 7.18 In addition to other duties outlined herein, the Secretary-General shall be directly responsible for the promotion of ICID, for the	

Sl. No.	Existing	Proposed Changes	Comments by National Committees, if any
	<p>ICID, for the development and maintenance of relationships with international organizations, and for carrying out studies and promoting good policies for irrigation and drainage practices worldwide.</p>	<p>development and maintenance of relationships with international organizations, and for carrying out studies and promoting good policies for agriculture water management including irrigation and drainage practices worldwide.</p>	
11	<p>ARTICLE (11) – DUES, SUBSCRIPTIONS AND FUNDS Annual Subscriptions 11.1 In order to defray the cost of the activities of the Commission or for special purposes, the Member National Committees and direct Members shall regularly pay to the order of the Secretary-General annual subscriptions (in as near the beginning of each calendar year as may be possible) on the basis pre-determined by the Council. National Committees of Member countries and direct members shall also pay such other special subscriptions as may be determined by the Council.</p>	<p>ARTICLE (11) – DUES, SUBSCRIPTIONS AND FUNDS Annual Subscriptions 11.1 In order to defray the cost of the activities of the Commission or for special purposes, the Member National Committees and direct Members shall regularly pay to the order of the Secretary-General annual subscriptions (in as near the beginning of each calendar year as may be possible) on the basis pre-determined by the Council. National Committees of Member countries and direct members shall also pay such other special subscriptions as may be determined by the Council. Membership subscription will be on a calendar year basis.</p>	



Annexure 2 to Annex R4.1 (Para 5)

EXISTING / PROPOSED CHANGES IN ICID BY-LAWS

Sl. No.	Existing	Proposed Changes	Remarks by National Committees, if any
1	<p>3.5 Limitation on Members: The membership of the work bodies shall be on an honorary basis (at least so far as the Commission is concerned). No person shall be a member of more than three (3), work bodies not counting Office-Bearers Committee, Management Board or Staff Committee. Direct members shall be the members of not more than three (3) work bodies. Members of work bodies not contributing by their attendance/correspondence for two consecutive years shall be replaced on the recommendations of the Chairman of the work body. For a wider representation of countries in a workbody, not more than two nominations from one country shall be accepted, provided one of the two nominees is a young professional.</p>	<p>3.5 Limitation on Members: The membership of the work bodies shall be on an honorary basis (at least so far as the Commission is concerned). No person shall be a member of more than three (3), work bodies not counting Office-Bearers Committee, Management Board or Staff Committee. Direct members shall be the members of not more than three (3) work bodies. Members of work bodies not contributing by their attendance/ correspondence for two consecutive years shall be replaced on the recommendations of the Chairman of the work body. For a wider representation of countries in a permanent workbody, not more than two one nominations from one country shall be accepted. In the case of a temporary work body, not more than four members may be nominated by a particular National Committee, provided at least one of the additional members is a young professional, and together they do not exceed 20% of the strength of the work body.</p>	Changes as suggested by the (SC-SSMWG)
2	<p>3.9.4 The Permanent Committee for Technical Activities (PCTA) (b) The Permanent Committee for Technical Activities will be composed of the Secretary-General, a minimum of nine and a maximum of fifteen elected members, as well as ex-officio members. The Chairperson of this Committee shall be chosen at the Executive Council meeting either from among the Office-Bearers (preferably those in offices) elected to this Committee or others who shall have been in service on the Commission at the time of appointment of the Chairperson. The Chairpersons of the work bodies reporting to the Permanent Committee on Technical Activities (PCTA) shall be the ex-officio members of the Committee.</p>	<p>3.9.4 The Permanent Committee for Technical Activities (PCTA) (b) The Permanent Committee for Technical Activities will be composed of the Secretary-General, who will act as the Secretary of the Committee, a minimum of nine and a maximum of fifteen elected members, as well as ex-officio members. The Chairperson of this Committee shall be chosen at the Executive Council meeting either from among the Office-Bearers (preferably those in offices) elected to this Committee or others who shall have been in service on the Commission at the time of appointment of the Chairperson. The Chairpersons of the work bodies reporting to the Permanent Committee on Technical Activities (PCTA) shall be the ex-officio members of the Committee.</p>	To ensure compatibility in the working of all the three permanent committees.
3	<p>3.9.5 The Permanent Committee on Strategy and Organization (PCSO) (a) The Permanent Committee on Strategy and Organization (PCSO) will undertake issues related to strategic planning for ICID and shall be concerned with expanding the ICID network by increasing the number of member countries, assisting the National Committees to become more active in their own countries and to achieve goals set for them from time to time, and increasing the participation of</p>	<p>3.9.5 The Permanent Committee on Strategy and Organization (PCSO) (a) The Permanent Committee on Strategy and Organization (PCSO) will undertake issues related to strategic planning for ICID and shall be concerned with expanding the ICID network by increasing the number of member countries, assisting the National Committees to become more broad-based and active in their own countries and to achieve goals set for</p>	

Sl. No.	Existing	Proposed Changes	Remarks by National Committees, if any
	<p>Direct members. The Committee will coordinate the activities of the Vice-Presidents in this area.</p> <p>(c) The Permanent Committee on Strategy and Organization will be composed of the incumbent Vice-Presidents, the Secretary-General and three immediate past Vice-Presidents. The Chairperson of the Committee will be nominated by the President in consultation with the Secretary-General from amongst the incumbent Vice-Presidents. The Chairperson shall serve the Committee during the tenure of membership of this Committee.</p>	<p>them from time to time, and increasing the participation of Direct members. The Committee will coordinate the activities of the Vice-Presidents in this area.</p> <p>(c) The Permanent Committee on Strategy and Organization will be composed of the incumbent Vice-Presidents, the Secretary-General, who will act as the Secretary of the Committee, and three immediate past Vice-Presidents. The Chairperson of the Committee will be nominated by the President in consultation with the Secretary-General from amongst the incumbent Vice-Presidents. The Chairperson shall serve the Committee during the tenure of membership of this Committee.</p>	<p>To ensure compatibility in the working of all the three permanent committees.</p>
4	<p>BY-LAW (4) – INTERNATIONAL EXECUTIVE COUNCIL</p> <p>4.1.2 Contents of Agenda: The agenda shall include the following:</p> <p>(i) Report and recommendations of the Management Board</p>	<p>BY-LAW (4) – INTERNATIONAL EXECUTIVE COUNCIL</p> <p>4.1.2 Contents of Agenda: The agenda shall include the following:</p> <p>(i) DELETED</p>	
5	<p>5.8 Obligations of the Host National Committee</p> <p>5.8.2 For a Congress, WIF, and IEC meeting: In addition to the requirements of rules as may be prescribed from time to time, the host National Committee will assume the following obligations:</p> <p>(c) One delegate each from international organizations participating in UN-Water, up to a maximum of five, as may be approved by the Council, when invited by the ICID Central Office, will be allowed to participate without payment of registration fee. Management Board shall review the list of invitees exempted from payment of registration fees every year and recommend to the Council appropriate changes as necessary.</p> <p>(e) Provide fifty percent waiver in registration fee to five Young Professional (below the age of forty years) participating in the event.</p>	<p>5.8 Obligations of the Host National Committee</p> <p>5.8.2 For a Congress, WIF, and IEC meeting: In addition to the requirements of rules as may be prescribed from time to time, the host National Committee will assume the following obligations:</p> <p>(c) One delegate each from international organizations participating in UN-Water, up to a maximum of five ten, as may be approved by the Council, when invited by the ICID Central Office, will be allowed to participate without payment of registration fee. Management Board shall review the list of invitees exempted from payment of registration fees every year and recommend to the Council appropriate changes as necessary.</p> <p>(e) Provide fifty percent waiver in registration fee to five ten Young Professional (below the age of forty years) participating in the event.</p>	
6	<p>5.9 Transactions of a Congress/Forum</p> <p>5.9.2 The procedure to be followed by the Central Office for the distribution of Transactions to intending participants in a Congress/Forum shall be as follows:</p> <p>(b) As soon as the printed copies of the Transactions are ready, the Central Office shall send to each member National Committee, Corporate members and Institutional members two copies and each</p>	<p>5.9 Transactions of a Congress/Forum</p> <p>5.9.2 The procedure to be followed by the Central Office for the distribution of Transactions to intending participants in a Congress/Forum shall be as follows:</p> <p>(b) As soon as the printed copies of the Transactions are ready, the Central Office shall send to each member National Committee,</p>	

Sl. No.	Existing	Proposed Changes	Remarks by National Committees, if any
	individual member one copy, for their record and use by surface mail.	Corporate members and Institutional members two copies and each direct individual member one copy, for their record and use by surface mail.	
7	<p>BY-LAW (9) – FORM OF APPLICATION FOR MEMBERSHIP</p> <p>9.2 The forms to be filled in by the potential direct members shall be as prescribed by the Council and modified from time to time and set out in the Handbook of Practices.</p>	<p>BY-LAW (9) – FORM OF APPLICATION FOR MEMBERSHIP</p> <p>9.2 The forms to be filled in by the potential direct members shall be as prescribed by the Council and modified from time to time and set out in the Handbook of Practices. Direct membership of the Commission may comprise:</p> <p>(a) Direct Individual Members;</p> <p>(b) Direct Institutional Members, or</p> <p>(c) Direct Corporate Members.</p> <p>Added:</p> <p>9.3 All the members of a National Committees, whose list and contact details are provided by the Chairperson or Secretary, and updated from time to time, shall be provided a certificate recognizing them as constituent member of ICID, which will run concurrent with the membership of the NC.</p>	<i>Shifted from Article 5.1 of the Constitution</i>
8	<p>BY-LAW (10) – PARTICIPATION OF NON-MEMBERS IN A CONGRESS/FORUM</p> <p>10.1 Purpose</p> <p>ICID encourages the participation of non-members in Congress/Forum, provided the host National Committee and the Central Office have no objection to their participation. The overall aim is to ensure maximum possible cooperation among all stakeholder in irrigation, drainage and flood management of the world and others to promote the mission and objectives of the Commission and to encourage all to derive benefits therefrom.</p>	<p>BY-LAW (10) – PARTICIPATION OF NON-MEMBERS IN A CONGRESS / FORUM</p> <p>10.1 Purpose</p> <p>ICID encourages the participation of non-members in Congress/Forum, provided the host National Committee and the Central Office have has no objection to their participation. The overall aim is to ensure maximum possible cooperation among all stakeholder in irrigation, drainage and flood management of the world and others to promote the mission and objectives of the Commission and to encourage all to derive benefits therefrom.</p>	
9	<p>10.2 Conditions of Participation</p> <p>Apart from such other conditions as may be laid down by the Council, the following shall apply.</p> <p>(b) Non-members may submit papers for discussions at a Congress/Forum provided the papers are accepted by the Review Committee / Central Office and processed according to the accepted procedures.</p>	<p>10.2 Conditions of Participation</p> <p>Apart from such other conditions as may be laid down by the Council, the following shall apply.</p> <p>(b) Non-members may submit papers for discussions at a Congress/Forum provided the papers are accepted by the Review Committee / Central Office and processed according to the accepted procedures.</p>	
10	<p>13.2 Three Years in Arrears</p> <p>13.2.1 In case of non-payment of annual subscription for a period of three years or more, the member NC shall be designated as “Associate Member”, provided that before reaching such decision the Council shall</p>	<p>13.2 Three Years in Arrears</p> <p>13.2.1 In case of non-payment of annual subscription for a period of three years or more, the member NC shall be designated as “Associate Member”, provided that before</p>	

Sl. No.	Existing	Proposed Changes	Remarks by National Committees, if any
	have given an opportunity to the NC to clear the arrears of subscription by a specified date.	reaching such decision the Council shall have given an opportunity to the NC to clear the arrears of subscription by a specified date. Consequently, members of the NC shall also lose their constituent membership of ICID simultaneously.	



**List of participants at the
68TH INTERNATIONAL EXECUTIVE COUNCIL (IEC) MEETING
14 October 2017, Mexico City, Mexico**

(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. Dr. (Mrs.) Irena G. Bondarik (Russia)
8. Mr. Waseem Nazir (Pakistan)
9. Er. Madhav Belbase (Nepal)

Secretary General

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

(B) CHAIRPERSONS OF PERMANENT COMMITTEES

1. Vice President Laurie C. Tollefson (Canada), PFC
2. Vice President Ding Kunlun (China), PCTA
3. Vice President Bong Hoon Lee (Korea), 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. Er. A.B. Pandya (India)
5. Mr. Adama SANGARE (Mali)
6. Dr. A. Hafied A. Gany (Indonesia)
7. Eng. Felix B. Reinders; Dr. Gerhard R. Backeberg (South Africa)
8. Dr. Ragab Ragab (United Kingdom)

(E) NATIONAL COMMITTEES / COMMITTEE

- | | |
|---|-----------|
| 1. Mr. Momir Vranes; Ms Kathleen Heuvel | Australia |
| 2. Mr. Laurie C. Tollefson; Mr. Warren Helgasun | Canada |
| 3. Mr. Gao Lihui | China |
| 4. Dr. Mohamed Abd-El-Moneim Wahba | Egypt |
| 5. Mr. Hannes Puu | Estonia |
| 6. Mr. Olli-Matti Verta | Finland |
| 7. Dr. Dominique ROLLIN; Mr. Bernard Vincent | France |
| 8. Dr. Laszlo G. Hayde | Hungary |
| 9. Dr. K. Yella Reddy | India |
| 10. Mr. Syaiful Mahdi; Mr. Bernard Parulian | Indonesia |
| 11. Mr. Ali Reza Salamat; Dr. M. Ehsani | Iran |
| 12. Dr. Marco Arcieri | Italy |
| 13. Mr. Sato Yohei; Mr. Mitsuo Ishijima | Japan |
| 14. Mr. Eun Hee Seo; Mr. Jung Seok Jang | Korea |

15.	Mr. Mohd. Adnan Ahmad Fauzi; Mr. Mukhlis Zainol Abidin	Malaysia
16.	Mr. Adama SANGARE	Mali
17.	Dr. Sean Cázares Ahearne Carlos; Dr. Gustavo Hinojosa	Mexico
18.	Dr. Bartali El Houssine	Morocco
19.	Mr. Mu Mu Than	Myanmar
20.	Mr. Ashok Singh; Mr. Bashu Dev Lohanee	Nepal
21.	Prof.dr. Ir. Bart Schultz	The Netherlands
22.	Rev. Michael I. Mwabufo; Dr. Ado Khalid Abdullahi	Nigeria
23.	Mr. Waseem Nazir	Pakistan
24.	Dr. (Mrs.) Irena G. Bondarik	Russia
25.	Dr. Sylvester Mpandeli	South Africa
26.	Mr. Omer Farut Akbulut; Mr. Hasan Basri Yuksel	Turkey
27.	Prof. Peter Kovakenko	Ukraine
28.	Dr. Ragab Ragab	United Kingdom
29.	Dr. Brian T. Wahlin; Mr. Larry D. Stephens	USA
30.	Dr. Shukhrat Mukhamedjanov	Uzbekistan
31.	Mr. Tanislaus M. Chisakuta; Mr. Cornelius Mulako Sitali	Zambia
32.	Dr. Ruey-Chy Kao, Mr. Kuang-Ming Chuang	Chinese Taipei

(F) OBSERVERS

1. Mr. Bryan Ward (Australia)
2. Ms Marine Egutia (Georgia)
3. Mr. Yasukhki Saiki; Mr. Mamoru Watanabe; Mr. Hito Tada; Mr. Yoji Imayoshi; Mr. Takeshi Kikutsuji; Mr. Hidefumi Murashita; Mr. Yuta Takeno; Mr. Mitsuo Ishijima; Mr. Naoki Hayashida (Japan)
4. Dr. Kamran Emami (Iran)
5. Mr. Jisun Kim; Mr. Jong Myong Kim; Mr. Jong Hyun Baik; Mr. Geumjun Lee; Ms Kyung Sook Choi; Mr. Seung Won Lee (Korea)
6. Mr. Mukhlis Bin Zainol Abidin (Malaysia)
7. Mr. Guillermo Guterez Gomez; Ms Patricia Herrera Ascencio; Mr. Marcos Cerritto; Mr. Benjimin Jimenez Almvas; Ms Paemla Rojas; Mr. Francisco Escobar (Mexico)
8. Ms Mona Liza F. Delos Reyes (Philippines)
9. Dr. Hakan Aksu; Mr. Yalçın Dalgın; Mr. S. Aydin Aytay (Turkey)
10. Mr. Franklin Dimick (USA)
11. Mr. Tran Chi Trung (Vietnam)



**IMPORTANT DECISIONS TAKEN BY THE
MANAGEMENT BOARD ON BEHALF OF IEC
BETWEEN
67TH IEC MEETING (CHIANG MAI, NOVEMBER 2016) AND
68TH IEC MEETING (MEXICO CITY, OCTOBER 2017)**

(And the actions taken thereon)

Decisions by the MB Meetings	Decision of 68th IEC
I. Virtual Management Board Meeting No.1/17, 17 January 2017 (via Web Conferencing)	
1. Approved inclusion of VP Dr. Waseem Nazir as a member of CG-Vision	Endorsed.
2. Approved the holding of series of Webinars as an efficient tool to disseminate and share knowledge and vast expertise available within and outside ICID fraternity.	Endorsed.
3. Approved the staff matters such as (i) revised medical allowance rules for ICID staff; (ii) reconstitution of ICID Pay Adjustment Committee and (iii) Provisional dissolution of ICID Staff Contributory Provident Fund Trust.	Endorsed.
II. Virtual Management Board Meeting No.2/17, 26 April 2017 (via Web Conferencing)	
4. Approved the process for appointment of new Secretary General and the constitution of a Selection Committee for the same.	Endorsed.
5. Approved the revised Human Resources Plan for ICID Central Office in view of newly adopted Vision, Mission and Goals of ICID.	Endorsed.
III. Virtual Management Board Meeting No.3/17, 23 May 2017 (via E-mail)	
6. Approved proposed negotiated rates of subscription for "Irrigation & Drainage" for the year 2018 @ US\$ 48 for "Online" and US\$ 59 for "Online + Print" for ICID member subscriptions which will be placed before PFC prior to its approval in 68 th IEC.	Endorsed.
7. Approved the newly proposed dates of 2-7 May 2018 (limited to 3/4 days) for holding the 8th Asian Regional Conference in Kathmandu, Nepal as proposed by the Nepal National Committee of ICID vide their e-mail dated 18 May 2017.	Endorsed.



PRESENTATION ON STRATEGY THEME “SCHEMES”
Vice President Dr. Ding Kunlun, Co-Theme Leader
(Jointly with Co-Theme Leaders VPs Ian W Makin and Dr. Irene Bondarik)

I. Introduction

The technical activities of ICID are organized under four Strategy Themes, viz. Knowledge, Schemes, Basin and On-Farm. The topics addressed by each theme are as follows.

1. **Strategy Theme – Knowledge (ST-K):** training, research, technology transfer, publications, and flood management;
2. **Strategy Theme – Schemes (ST-S):** institutional & organizational aspects, revitalization, modernization, development and management with sustainability, and water saving in irrigation;
3. **Strategy Theme – Basin (ST-B):** policy/planning framework, economic and legal issues, institutional aspects, water and soil resources management, environment and sustainable development;
4. **Strategy Theme – On-Farm (ST-OF):** irrigation management and farming techniques, drainage management and farming techniques in the catchment.

Every four years by rotation, the Co-Theme Leaders of one of the strategy themes will make a report and presentation on the Strategy Theme assigned to them, to take an overview of the theme, analyzing the activities undertaken by the working groups under the strategy theme and identification of gaps, if any, in fulfilling the objectives of ICID relating to that theme.

This year in 2017, at the 68th IEC in Mexico City, Mexico on 14 October 2017, it is the turn for the presentation on the ST-Schemes by its Co-Theme Leaders. This report was prepared by the Co-Theme leaders of the ST-Schemes to analyze the mandates of the working groups under it and their appraisal, vision, and future directions.

(a) Working Groups under ST-Schemes

There are following five working groups reporting to PCTA under ST-Schemes:

- (1) Working Group on Sustainable Drainage Management (WG-SDRG)
- (2) Working Group on Institutional Aspects of Irrigation / Drainage System (WG-IOA)
- (3) Working Group on Modernization & Revitalization of Irrigation Schemes (WG- M&R)
- (4) Working Group on Water Saving in Irrigated Areas (WG-WATS)
- (5) Working Group on Irrigation Development and Management (WG-IDM)

(b) Mandates of the WGs under ST-Schemes

WG-SDRG: (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.

WG-IOA: The scope of the WG is to 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 organizational requirements for sustainable operation and maintenance of irrigation/drainage systems, (b) improvement of organizational 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.

WG-M&R: 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

WG-WATS: (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.

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); (f) drivers for and resistances at system level to improve irrigation management; (g) social issues to be considered along with technical and economical ones; (h) management of multi-use hydraulic systems, and interdependence between uses; (i) performance evaluation of irrigation schemes and benchmarking; (j) ways towards economical performance enhancement (cost reduction and efficiency improvement).

II. Overlaps and Gaps

Based on the subject and mandates of the Working Groups, there are some aspects or similar topics that are have been pursued by different working groups; a few of them are identified below:

- (1) The topic of "charging irrigation services and cost recovery or sharing" are covered by the WG-IOA, WG-M&R and WG-WATS;
- (2) "Institutional and organizational" aspects are covered by WG-IOA, WG-M&R and WG-WATS;
- (3) "Water measuring" aspect is covered by WG-WATS and WG-IDM;
- (4) "Assessment of water loss in various components of irrigation systems" is covered and listed by WG-WATS and WG-IDM, and similarly by WG-M&R as well.

This situation may indicate that, for some common aspects, the WGs should put their strength together to jointly prepare outputs or deliverables.

III. Focuses and Future Directions

Agricultural Drainage and WG-SDRG: Agricultural drainage may be broadly divided into two types of problems in terms of the causes and approaches to deal with in practice. One is drainage required to release excessive rainwater and control groundwater table at a workable depth and suitable for crop growth, which is usually caused by rainfall in wet regions, and normally without irrigation required, called water-logging problem. Another is drainage required to release excessive water to control groundwater table depth and salinity, which are normally caused by irrigation in arid and semi-arid regions. For the latter one, cases of more failures than successes in the past around the world may indicate that new ideas need to be brought in to cope with the drainage and secondary-salinity problems in many large irrigation districts, as could be seen in countries like China, Pakistan, Egypt and India, where large amount of water is diverted for flooding irrigation. During the 13th International Drainage Workshop (IDW13) held in Iran in March 2017, It was addressed the management of not only the drainage water quality but also its volume. The concept of taking "measures to lower volume of drainage water" should be given more attention as this closely linked to improvement of irrigation management and water-saving in irrigation. The aspects considered and issues raised in IDW13 may provide the focuses and direction in future for agricultural drainage, as described below:

- (1) Measures to improve drainage water quality;
- (2) Measures to lower volume of drainage water;
- (3) Adaption of new design criteria in favour of the environment;
- (4) Application of alternative drainage methods.

Emphasis more on Scheme level of ST-Schemes: Activities or topics under ST-Schemes should emphasize more on the scheme level rather than individual techniques and devices. In other words, systematic knowledge, methodologies, approaches, or comprehensive techniques are required for the improvement of irrigation and drainage systems to enhance the overall efficiency, productivity and sustainability. These can include engineering, management, O&M, resources and financial aspects, or all of them. Thus, some of individual aspects may not fall in this “area” but a “point”, like water measuring method and devices.

Importance of focusing on improvement of existing irrigation and drainage system: Irrigation systems in the world play an important role in food security, supplying nearly half of the grain production with only 18% of the total cultivated land. The importance of improving existing irrigation systems can be realistically reflected from the member countries in the following paragraph.

Degradation of the engineering infrastructure of existing irrigation systems, newly generated and improved irrigation technologies and management tools and increased water shortage situations for agriculture sector, have all made it a very important and urgent task to rehabilitate and modernize the existing irrigation systems in many countries around the world, as addressed in the papers from Mexico, Egypt, Iran, Sri Lanka, Ukraine, Philippines, China, etc. (Questions 61.1 & 61.3 of 23rd ICID Congress, Mexico City, Mexico, 2017).

Therefore, the concerns and focuses of the member countries may be taken as one of the focuses in future for the ST-Schemes, involving all the workbodies.

Focus more on Outputs: To enhance visibility of WGs and further the objectives of ICID by producing more technical “products”, like Methods, Guidelines, Guidance, Manuals, etc. which are more demanded by the national committees for the works at scheme level in practice.

It is noted that “standardization and codes of practice in irrigation systems” is covered in the mandate of WG-M&R. It is good to produce deliverables that would be able to enhance the attraction and visibility of the working groups and further the objectives of ICID in long-term. Good examples are the products made by ICID earlier years, such as the “Guidelines for Rehabilitation and Modernization of irrigation Projects” (W. Price. WG-IDM of ICID, 1999), and RAP and MASSCOTE used as the appraisal and assessment tools for existing irrigation projects’ rehabilitation and modernization (FAO, 2008), all of which have been taken as useful guidance and tools in many countries.

IV. Conclusions/Recommendations

- (1) To plan and hold special events, like workshops, symposiums, on issues or topics of common interest to attract more participants and make collective of papers printed and disseminated; This has been done by some WGs, such as WG-IOA and WG-SDRG, which successfully attracted the attention of NCs to participate in the event;
- (2) To enhance the visibility of WGs and further the objectives of ICID by producing more technical “products”, like Methods, Guidelines, Guidance, Manuals, etc.,
- (3) To put more attention to the “scheme level” works and use joint strength of WGs to provide outputs on common concerns or systematic considerations, and
- (4) To lower drainage water amount may be one of the directions to be addressed for drainage subject of irrigated land.



SUBSCRIPTION DETAILS FOR THE NATIONAL COMMITTEES

Sl. No.	National Committee/ Committee#	UNC of Country		Benefitted area (Mha)			Actual Subscription for 2017	Subscription based on new formula, weighted area and 2017 UNC (\$)		
		1991 or in the year of becoming ICID Member	2017 [@]	1991*	Annual report 2016-17**	Weighted Area (2016-17)***		Revised Subscription	difference with actual 2017	% change
1	2	3	4	5	6	7	8	9	10=9-8	11
1	Australia	1.66	2.337	2.67	4.32	3.24	5965	6135	170	2.8
2	Bangladesh	0.01	0.01	4.47	6.72	5.97	2990	3175	185	6.2
3	Brazil	1.04	3.823	10.60	6.88	6.34	7365	7840	475	6.4
4	Burkina Faso (2014)	0.01	0.004	0.04	0.04	0.04	1660	1650	-10	-0.6
5	Canada	3.06	2.921	7.63	10.51	9.99	8245	7940	-305	-3.7
6	Chad (2012)	0.002	0.005	0.03	0.03	0.03	1650	1635	-15	-0.9
7	China	0.79	7.921	47.94	87.01	76.44	10420	13085	2665	25.6
8	Croatia (1993)	0.13	0.099	0.54	0.78	0.77	2555	2710	155	6.1
9	Egypt	0.07	0.152	5.21	7.01	5.33	4675	4655	-20	-0.4
10	Estonia (2001)	0.01	0.038	0.73	0.64	0.64	2130	2605	475	22.3
11	Ethiopia	0.01	0.01	0.11	0.57	0.55	1780	2020	240	13.5
12	Fiji (2010)	0.003	0.003	0.01	0.01	0.01	1945	1590	-355	-18.3
13	Finland (2000)	0.57	0.456	2.01	2.57	2.54	4220	4405	185	4.4
14	France	6.87	4.859	4.91	5.60	4.30	7495	7235	-260	-3.5
15	Great Britain/UK	4.86	4.463	2.09	4.73	4.69	6450	7360	910	14.1
16	Hungary	0.22	0.161	2.63	2.52	2.41	3745	3625	-120	-3.2
17	India	0.35	0.737	78.24	67.80	64.90	11080	11150	70	0.6

SI. No.	National Committee/ Committee#	UNC of Country		Benefitted area (Mha)			Actual Subscription for 2017	Subscription based on new formula, weighted area and 2017 UNC (\$)		
		1991 or in the year of becoming ICID Member	2017 [@]	1991*	Annual report 2016-17**	Weighted Area (2016-17)***		Revised Subscription	difference with actual 2017	% change
1	2	3	4	5	6	7	8	9	10=9-8	11
18	Indonesia	0.14	0.504	5.14	10.07	8.40	4650	6180	1530	32.9
19	Iran	0.63	0.471	6.44	8.85	8.71	6475	6255	-220	-3.4
20	Iraq	0.12	0.129	6.93	4.92	4.23	5145	4315	-830	-16.1
21	Ireland	0.18	0.335	0.05	0.35	0.30	1855	2990	1135	61.2
22	Italy	3.79	3.748	6.55	7.72	6.51	7970	7885	-85	-1.1
23	Japan	10.84	9.68	5.50	6.44	4.98	7665	7450	-215	-2.8
24	Kazakhstan (2006)	0.076	0.191	1.37	1.65	1.43	3150	3140	-10	-0.3
25	Korea, Rep. of	0.18	2.039	1.31	2.19	1.67	3130	5445	2315	74.0
26	Madagascar (2014)	0.003	0.003	0.63	1.20	1.14	2015	2240	225	11.2
27	Malaysia	0.253	0.322	0.65	6.39	6.19	2655	5625	2970	111.9
28	Mali (2005)	0.01	0.003	0.10	0.38	0.38	1765	1935	170	9.6
29	Malawi	0.002	0.002	0.02	0.07	0.07	1650	1700	50	3.0
30	Mexico	0.89	1.435	6.60	11.70	9.10	6515	7070	555	8.5
31	Morocco	0.05	0.054	0.60	2.11	1.78	2605	3330	725	27.8
32	Myanmar (2014)	0.01	0.01	1.95	2.49	2.39	2505	2565	60	2.4
33	Nepal	0.01	0.006	0.25	1.27	1.23	1885	2270	385	20.4
34	Netherlands	1.74	1.482	1.97	3.49	3.24	5655	5415	-240	-4.2
35	Nigeria	0.19	0.209	0.07	0.29	0.29	1900	2250	350	18.4

SI. No.	National Committee/ Committee#	UNC of Country		Benefitted area (Mha)			Actual Subscription for 2017	Subscription based on new formula, weighted area and 2017 UNC (\$)		
		1991 or in the year of becoming ICID Member	2017 [@]	1991*	Annual report 2016-17**	Weighted Area (2016-17)***		Revised Subscription	difference with actual 2017	% change
1	2	3	4	5	6	7	8	9	10=9-8	11
36	Niger (2007)	0.002	0.002	0.00	0.10	0.10	1625	1730	105	6.5
37	Pakistan	0.06	0.093	22.46	26.94	23.01	7250	7210	-40	-0.6
38	Philippines	0.1	0.165	1.60	4.24	3.48	3275	4050	775	23.7
39	Portugal	0.18	0.392	0.87	0.58	0.56	2830	3260	430	15.2
40	Romania	0.17	0.184	7.45	4.98	4.06	5280	4255	-1025	-19.4
41	Russia (1992)	10.2	3.088	11.01	9.28	7.03	8890	8020	-870	-9.8
42	Saudi Arabia	0.99	1.146	0.46	1.66	1.64	3935	4705	770	19.6
43	Slovenia (1992)	0.09	0.0844	0.14	0.09	0.08	2055	1910	-145	-7.1
44	Somalia (2016)	0.001	0.001	0.20	0.20	0.20	1827	1820	-7	-0.4
45	South Africa (1993)	0.41	0.364	3.30	1.66	1.63	4770	3975	-795	-16.7
46	Spain	2.03	2.443	3.30	3.94	3.79	6240	6335	95	1.5
47	Sri Lanka	0.01	0.031	0.66	0.60	0.59	2110	2555	445	21.1
48	Sudan (2015)	0.01	0.01	3.90	2.45	2.17	2895	2515	-380	-13.1
49	Switzerland	1.1	1.14	0.15	0.20	0.18	3535	3540	5	0.1
50	Tajikistan (1997)	0.003	0.004	0.70	1.13	0.97	2120	2185	65	3.1
51	Tanzania (2011)	0.01	0.01	0.16	0.18	0.18	1830	1805	-25	-1.4
52	Thailand	0.09	0.291	4.09	4.90	4.82	4315	4500	185	4.3
53	Turkey	0.34	1.018	3.95	9.16	7.45	4995	6675	1680	33.6

Sl. No.	National Committee/ Committee#	UNC of Country		Benefitted area (Mha)			Actual Subscription for 2017	Subscription based on new formula, weighted area and 2017 UNC (\$)		
		1991 or in the year of becoming ICID Member	2017 [@]	1991*	Annual report 2016-17**	Weighted Area (2016-17)***		Revised Subscription	difference with actual 2017	% change
1	2	3	4	5	6	7	8	9	10=9-8	11
54	Ukraine (1996)	0.302	0.103	3.40	5.48	4.39	4255	4365	110	2.6
55	USA	25	22	79.00	73.90	60.70	13290	12410	-880	-6.6
56	Uzbekistan (1994)	0.26	0.023	4.20	7.61	5.96	4360	3175	-1185	-27.2
57	Zambia	0.01	0.007	0.02	0.16	0.16	1650	1785	135	8.2
58	Zimbabwe	0.002	0.004	0.17	0.27	0.22	1825	1835	10	0.5
59	Chinese Taipei Committee [§]			0.84	0.51	0.45	5720	5320	-400	-7.0
	Total						254437	266810	12373	

Notes:

- Year in bracket against country are when subscription was fixed at last entry otherwise 1991

@ - 2017 UN contribution (UNC) is based UN report ST/ADM/SER.B/955

\$ - UNC contribution is not applicable so capacity to pay has been taken same as in 1991 modified as per inflation factor of 1.456 since 1991 to 2015.

* - Area considered during 1991 or at the time of becoming ICID member after 1991

** - Area benefitted as per Annual Report 2016-17 (IA based on NC data/FAO Statistical Handbook 2015/FAO Aqua stat and DA based on NC data or CEMAGREF data)

*** - Weighted area calculated as given below.

Concession for least developed country= If UNC is <0.03 then concession is 50% of interest of country

REVISED MANDATES OF RE-ESTABLISHED WORKBODIES**A. Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST)**

- (a) To motivate ICID National Committees in various countries to set up their National Working Groups on History;
- (b) To provide guidance to compile, publish, update and/or translate documents on history of irrigation, drainage, and flood management;
- (c) To promote inter—disciplinary exchange of information, knowledge and experience, as well as networking on the topic (agricultural, political, socio-economic, climatologically and geographical, aspects) for proper understanding of the technological developments on the subject;
- (d) To organize seminars at ICID Congresses to enhance awareness of Water history;
- (e) To prepare a paper on “Historical Water Sustainability” for publication in *Irrigation and Drainage (IRD) Journal*;
- (f) To finalize a book on “Historical Water Sustainability”.
- (g) To encourage member countries to produce documentaries on Water History.

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

- (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.





The 23rd ICID Congress: Towards A New Green Revolution 2.0
08-10 October 2017, Mexico City, Mexico

Outcome of 23rd ICID Congress



The 23rd International Congress on Irrigation and Drainage with the main theme was “Modernizing Irrigation and Drainage for a new Green Revolution” was held from 08-14 October 2017 at World Trade Centre, Mexico City, Mexico, organized and hosted by Mexican National Committee of ICID (MXCID). The Congress was attended by more than 832 delegates from 35 countries.

The general rapporteurs for the thematic questions of the Congress Questions 60 “**Water productivity: revisiting the concepts in light of water, energy and food nexus**” and 61 “**State of knowledge of irrigation techniques and practicalities within given socio-economic settings**” presented their reports based on 151 papers and posters submitted from more than 25 countries.

As a result of intense deliberations, the following outcome in respect of Congress Questions 60 and Question 61, has been emerged:

Q. 60: Water productivity: revisiting the concepts in light of water, energy and food nexus

1. To improve irrigation services through modernization, there is need to revisit water productivity by identifying challenges and opportunities. Various water saving measures should be passed through the water-energy-food prism for identifying challenges in associated domains and help find opportunities.
2. Investing in improving irrigation technologies and techniques help saving agricultural water and can improve equitability of distribution amongst the common stakeholders but the technology transfer is important through capacity building
3. Many techniques are available, especially the ICT based ones and also the measurement techniques for assessing the actual releases and regulating them. Water losses at the field level have been minimized using a suite of techniques.
4. Volumetric extraction systems for aquifers allow monitoring of allocated and recharge volumes from aquifers.
5. Water reuse/ recycle needs assessment of site specific conditions in the contexts and should avoid stakeholder conflicts for water transfers and adoption of structural and operational reforms
6. Water, energy and food nexus has multi-dimensional features and is compounded by climate and social changes as has been revealed by studies in a number of countries across the globe.
7. Water footprint indicators seem to be useful in assessing water management in irrigated areas. Various water management techniques adopted, strongly influence the water footprints for specific crops at the field level.

8. Considerable advances are being made in the satellite image processing areas as well as simulation modeling, which need be leveraged for better impact assessment of measures adopted or proposed for sectoral water management.
9. Water security has environmental and social aspects. While managing an extreme situation, both have to be considered in conjunction with each other. Analysis of water laws and legal frameworks to achieve sustainable water management leading to water security is necessary.
10. Challenges of water security emerging from international basins need be addressed through cooperation mechanisms based on principles of international water law.
11. User's role in water management is important at the basin level and need to be coordinated with better information dissemination.
12. To achieve water security through reuse/ recycle of water, policies have to take associated health issues into account.

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

1. The definition of precision agriculture evokes different understanding amongst the community covering a wide range of options and technologies for application management at the field level and also the necessary decision support in a spatial and temporal manner for directing water in a required manner.
2. Advances in technologies like ICT and cloud based computing models for real time decision support coupled with accurate determination of the status in the field using drones enable the application to large areas with multiple holdings as against large farms only in the past.
3. ET based irrigation scheduling has the potential to improve on-farm efficiency.
4. The importance of organizing small farm holder community and ensuring institutional support is required for making the benefits of modernization reach them effectively.
5. Role of operating decisions play an important part in improving irrigation efficiencies and it is required that operations may be kept simple to avoid irrigator errors.
6. A number of software tools are available for simulating for irrigation system evaluation, design and operational analysis. Further progress in this area is required for using better infiltration models while maintaining computational speeds.
7. New technologies have to be adaptable in order to reap benefits after their implementation. Scaling up effects should be properly understood before large scale implementation and adoption by the user communities.
8. Adaptability of the technologies should be seen in various contexts of climatic conditions, environmental and socio-economic conditions and then their validity should be determined.
9. Land tenure and size of landowners are important factors for adaptation of new irrigation technologies particularly in developing countries. However, new approaches like land pooling and cooperative farming can provide windows of opportunities to implement the techniques and thereby improve efficiencies.



**MEMBERSHIP OF VARIOUS WORKBODIES
(As Updated During 68TH IEC)**

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

No.	Members	Country	Remarks
1.	VPH Mr. Laurie Tollefson	Canada	Chair
2.	Mr. Hao Zhao	China	Member
3.	Ms. Serpil Koylu Dalgin	Turkey	Member
4.	Mr. Naoki Hayashida	Japan	Member
5.	Engr. Husnain Ahmad	Pakistan	Member
6.	Dr. Irene Bondarik	Russia	Member
7.	Mr. Ali Reza Salamat	Iran	Member
8.	Dr. Marco Arcieri	Italy	Member
9.	Mr. Hazim Ibrahim Othman Mohammed	Iraq	Provisional Member
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 (2016)
3.	Vice President Hon. Dr. Mohamed Abd-El-Moneim Wahba	Egypt	Member (2014)
4.	Vice President Hon. Dr. Ding Kuntun	China	Member (2014)
5.	Vice President Prof. Dr. Charlotte de Fraiture	The Netherlands	Member (2015)
6.	Vice President Mr. Ian William Makin	UK	Member (2015)
7.	Vice President Prof. Dr. Abdelhafid DEBBARH	Morocco	Member (2015)
8.	Vice President Dr. Irene G. Bondarik	Russia	Member (2016)
9.	Vice President Mr. Waseem Nazir	Pakistan	Member (2016)
10.	Vice President Mr. Madhav Belabse	Nepal	Member (2016)
11.	Vice President Er. Naoki Hayashida	Japan	Member (2017)
12.	Vice President Dr. Brian T. Wahlin	USA	Member (2017)
13.	Vice President Dr. K. Yella Reddy	India	Member (2017)
14.	Secretary General, ICID		Member-Secretary
15.	FAO representative		Permanent Observer
16.	World Bank representative		Permanent Observer
17.	GWP representative		Permanent Observer
18.	WWC representative		Permanent Observer

No.	Members	Country	Remarks
19.	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.	VPH Dr. Mohamed Wahba	Egypt	Chairman
2.	Dr. Sylvester Mpandeli	South Africa	Vice Chairman
3.	Mr. Jean Bernard Dambre	Burkina Faso	Secretary
4.	Mrs. Salamata Karambiri MIWENDE	Burkina Faso	
5.	Mr. Tchouadang Kadjonga	Chad	
6.	Eng. Omnia Hassan Ahmad Salem – Young Professional	Egypt	Provisional Member
7.	Representative from ETCID	Ethiopia	
8.	Representative from MADCID	Madagascar	
9.	Representative from MALCID	Malawi	
10.	Representative from AMID	Mali	
11.	Ms. Sara Boularbah – Young Professional	Morocco	Provisional Member
12.	Ms. El Oumlouki Kaoutar – Young Professional	Morocco	Provisional Member
13.	Representative from ANID	Niger	
14.	Engr. Joe Kwanashie	Nigeria	
15.	Mr. Abdullahi Hassan Hussein – Young Professional	Somalia	
16.	Eng. Mohamed Mohamud Abdi	Somalia	Provisional Member
17.	Eng. (Ms.) Hind Massoud Hamed Elneel	Sudan	Provisional Member
18.	Eng. Marwa Faisal Salman Mohamed – Young Professional	Sudan	Provisional Member
19.	Representative from TANCID	Tanzania	
20.	Mr. Mulako Cornelius Sitali	Zambia	
21.	Representative from ZwCID	Zimbabwe	
	Observers		
22.	VPH Dr. Samia El-Guindy	Egypt	
23.	Mr. Jean Syroganis Camara	Italy	
24.	Mr. A. de Vito	Italy	
25.	Eng. Omer Yousef	Sudan	
26.	FAO Representative		
27.	World Bank Representative		
28.	ARID Representative		

29.	SARIA Representative		
30.	AgWA Representative		

II.2 — ASRWG			
No.	Members	Country	Remarks
1.	VPH Karim Shiati	Iran	Chairman
2.	Mr. Stephen Mills	Australia	
3.	Representative from BANCID	Bangladesh	
4.	Mr. Wang Aiguo	China	
5.	Dr. Gwo-Hsing Yu	Chinese Taipei	
6.	Dr. Rajinder Kumar Gupta -Direct Member (WAPCOS)	India	
7.	Dr. Mochammad Amron	Indonesia	
8.	Mr. Shaimaa Shihab Ahmed	Iraq	
9.	Mr. Ammar Salah Ahmed Manhee - Young Professional	Iraq	
10.	Mr. Naoki Hayashida	Japan	
11.	Representative from KAZCID	Kazakhstan	
12.	Prof. (Ms.) Kyung Sook Choi	Korea, Rep. of	
13.	Ms. Jeong Min, Ryu – Young Professional	Korea, Rep. of	
14.	Ir. Syed Abdul Hamid bin Syed Shuib	Malaysia	
15.	Dr. (Ms.) Mu Mu Than	Myanmar	
16.	Mr. Bashu Dev Lohanee	Nepal	
17.	Mr. Ahmed Kamal	Pakistan	
18.	Representative from PNC-ICID	Philippines	
19.	Representative from SACID	Saudi Arabia	
20.	Eng. W.B. Palugaswewa	Sri Lanka	Provisional Member
21.	Representative from TAJCID	Tajikistan	
22.	Mr. Arthon Suttigarn	Thailand	
23.	Dr. Aynur Fayrap	Turkey	
24.	Mr. Ilkhom Juraev	Uzbekistan	
25.	Dr. Dao Trong Tu	Vietnam	Provisional Member

II.3 — C-CONGR			
No.	Members	Country	Remarks
1.	Mr. Bryan Wards	Australia	Chair
2.	VPH Laurie C. Tollefson	Canada	Representative
3.	Mr. Bashu Dev Lohanee	Nepal	Representative
4.	Mr. Sanjay Belsare	India	Representative
5.	Mr. Saiful Mahdi	Indonesia	Representative
6.	Mr. Luis Felipe Alococer	Mexico	Representative

II.4 — ERWG			
No.	Members	Country	Remarks
1.	VP Ian Makin	UK	Chair
2.	VPH Peter Kovalenko	Ukraine	Vice-Chair
3.	Mr. Olli-Matti Verta	Finland	Secretary
4.	Representative	Netherland	
5.	Representative	Spain	
6.	Representative	Switzerland	
7.	VPH Brane Maticic	Slovenia	
8.	Mr. Pedro Eduardo da Cunha Serra	Portugal	
9.	Prof. Dr. Ion Nicolaesco	Romania	
10.	Dr. Davor Romic	Croatia	
11.	Dr. John Martine	Ireland	
12.	VPH Laszlo Hayde	Hungary	
13.	Dr. Irina G. Pankova	Russia	Observer YP
14.	Dr. (Mrs.) Sabine Seidelas as Young Professional	Germany	Observer
15.	Dr. Irene Bondark	Russia	
16.	Dr. Klaus-Dieter Vorloop	Germany	Observer
17.	Dr. Sami Bouarfa	France	
18.	Mr. Hannes Puu	Estonia	
19.	Dr. Maroco Arcieri	Italy	
20.	Mr. Peter Alexey Yurievich, Chair, EWTDR	Russia	Ex-Officio Member

II.5 — WG-IDSST			
No.	Members	Country	Remarks
1.	VPH Prof. Peter Kovalenko	Ukraine	Chairman
2.	VPH Prof. Victor A. Dukhovny	Uzbekistan	Vice Chairman
3.	Dr. Shukhrat Mukhamedjanov	Uzbekistan	Secretary
4.	Dr. Rajinder Kumar Gupta - Direct Member	India	
5.	Dr. Katsuyuki Shimizu	Japan	
6.	Engr. Peter Yakube Manjuk	Nigeria	
7.	Dr. Alexander Solovyev	Russia	
8.	Eng. W.B. Palugaswewa	Sri Lanka	Provisional Member
9.	Mr. Baratov Rustam Okilovich	Tajikistan	
Permanent Observers			
10.	Prof. Daene C. McKinney (IWRA)		
11.	FAO Representative		
12.	World Bank representative		

II.6 — IYPeF			
No.	Members	Country	Remarks
1.	Ms. Kathleen Heuvel	Australia	Coordinator
2.	Ms. Adey N. Mersha	Ethiopia	Joint Co-ordinator

3.	Mr. Rafat Nael Al-Intaki	Iraq	Joint Co-ordinator
4.	Mr. Mika Turunen	Finland	Joint Co-ordinator
5.	Ms. Eman Ragab	Egypt	Joint Co-ordinator
6.	Mr. M. Shoaib Saboory	Afghanistan	Joint Co-ordinator

III. PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)

No.	Members	Country	Remarks
1.	VP Dr. Ding Kunlun, Chair	China	Chair
2.	Prof. Graziano Ghinassi, (Italy)	Italy	Member
3.	Prof. Masayoshi Satoh (Japan)	Japan	Member
4.	PH Peter S. Lee (UK)	UK	Member
5.	Ms. Aysen Pervin Gungör (Turkey)	Turkey	Member
6.	Mr. Chaiwat Prechawit (Thailand)	Thailand	Member
7.	Dr. Mohamed Wahba	Egypt	Member
8.	Mr. Ali Reza Salamat	Iran	Member
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 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	Chair
2.	Mr. Sanjay Belsare	India	Vice-Chair
3.	VPH Laurie C. Tollefson	Canada	
4.	Mr. Mortaza Yazdkhasti	Iran	
5.	Mr. Bassam Hayek	Jordan	Observer
6.	Dr. Salih Hamad Hamid Omer	Sudan	
7.	Mr. Abdul Wahab Siyal	Pakistan	Provisional Member
8.	Dr. Jose Reyes Sanchez	Mexico	Provisional Member

III.B.2 — WG-CLIMATE

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

III.B.3 — WG-ENV

No.	Members	Country	Remarks
1.	Prof. dr. (Ms.) Charlotte de Fraiture	The Netherlands	Chair
2.	Prof. N. Hatcho	Japan	Vice Chairman
3.	Mr. V.C. Ballard	Australia	
4.	Mr. Mohammad Samiul Ahsan Talucder - Direct Member	Bangladesh	
5.	Dr. Fuqiang Tian	China	
6.	Ms. Seija Virtanen	Finland	
7.	Mr. Usamah Hashim Witwit	Iraq	
8.	Dr. Choi, Joong-Dae	Korea, Rep. of	
9.	Ir. Mohd Azmi Ismail	Malaysia	

10.	Dr. Muhammad Basharat Chaudhry	Pakistan	
11.	Dr. Yury Anatolyevich Mozhaikii	Russia	
12.	Eng. (Ms.) P.M. Jayadeera	Sri Lanka	
13.	Dr. Aynur Fayrap	Turkey	

III.B.4 — WG-MWSCD

No.	Members	Country	Remarks
1.	VPH Franklin E. Dimick	USA	Chair
2.	Mr. V.C. Ballard	Australia	Vice-Chair
3.	Mr. Mohammad Sadeq Jafari	Iran	
4.	VPH Ragab Ragab	UK	
5.	Dr. Graziano Ghinassi	Italy	
6.	Prof. Chang-Chi Cheng	Chinese Taipei	
7.	Dr. Takanori Nagano	Japan	
8.	Dr. Hakan Aksu	Turkey	Young Professional
9.	Mr. Sudhakar (Direct Member), JISL	India	
10.	Ms. Jianxin Mu	China	Provisional Member
11.	Dr. Jaepil Cho	Korea	
12.	Mr. Raquib Khan	Pakistan	Provisional Member

III.B.5 — WG-SDTA

No.	Members	Country	Remarks
1.	Dr. Ruey-Chy Kao	Chinese Taipei	Chair
2.	Ir. Henk P. Ritzema	Netherlands	Vice Chair
3.	Dr. Hajime Tanji	Japan	Secretary
4.	Dr. (Ms) Hsiao-Weng Wang	Chinese Taipei	Young Professional
5.	Prof. Budi Santoso Wignyosukarto	Indonesia	
6.	Prof. Zhang Zhanyu	China	
7.	Ir. Hj. Nor Hisham bin Mohd Ghazali	Malaysia	
8.	Dr. Jeongryeol Jang	Korea	
9.	Mr. Anuj Kanwal	India	
10.	Dr. Jo Jin Hoon	Korea	Permanent Observer
11.	Dr. Daeou Eo	Korea	Permanent Observer
12.	Mr. Robiyanto Hendro Susanto	Indonesia	Permanent Observer
13.	Mr. Harry Denecke (FAO)		Permanent Observer

III.K.1 — WG-CDTE

No.	Members	Country	Remarks
1.	Prof. Dr. Abdelhafid DEBBARH	Morocco	Chair
2.	Dr. Young D. Kim	Korea	Vice Chair
3.	Mr. Mirza Asif Baig	Pakistan	Provisional Member

4.	Dr. Nader Heydari	Iran	Provisional Member
5.	Eng. Abu Obieda Babiker Ahmed Hassan	Sudan	Provisional Member
6.	Mr. Ramesh Kumar	India	Provisional Member
7.	Mr. Hasan Basri Yuksel	Turkey	Provisional Member
8.	Ms Dahile Abdulqader Abdulhameed (YP)	Iraq	Provisional Member
9.	Mr. Raad F Amein Taha	Iraq	Provisional Member

III.K.2 — WG-HIST

No.	Members	Country	Remarks
1.	Dr. Kamran Emami	Iran	Chairman
2.	Mrs. Xuming Tan	China	
3.	Eng. Ahmed Awad Hag Abd-Elnabi	Egypt	Provisional Member
4.	VPH Dr. Laszlo Hayde	Hungary	
5.	VPH Dr. A. Hafied A. Gany	Indonesia	
6.	Mr. Antonio Linoli	Italy	
7.	Prof. Dr. N. Hatcho	Japan	
8.	Mr. Jong Myong, Kim	Korea, Rep. of	
9.	Dr. José Luis Martínez Ruiz	Mexico	
10.	Engr. Sirika Ahmad Abubakar	Nigeria	
11.	Prof. Dr. Abdul Sattar Shakir	Pakistan	
12.	Prof. Jaekyoung Noh	Republic of Korea	
13.	VPH Dr. Gerhard Backeberg	South Africa	
14.	Eng. S.P.C. Sugeeshwara	Sri Lanka	Provisional Member
15.	VPH Chaiwat Prechawit	Thailand	
16.	Mr. Charles L. Abernethy	UK	
Permanent Observers			
17.	Dr. Ir. M. Ertsen (IWHa)		
18.	Dr. Ing. Klaus Rottcher	Germany	
19.	Dr. (Mrs.) B. Dolfing	The Netherlands	

III.K.3 — EB-JOUR

No.	Members	Country	Remarks
1.	PH Bart Schultz	Netherlands	Chair
2.	Prof. Dr. Kristoph-Dietrich Kinzli P.E.	USA	Joint Editor
3.	Dr. Jiusheng Li	China	Joint Editor
4.	VPH Hector Malano	Australia	(2001) Editor Emeritus
5.	Dr. Bryan P. Thoreson	USA	Associate Editor
6.	Prof. Daniele de Wrachien	Italy	Associate Editor
7.	Prof. Yih Chi Tan	Chinese Taipei	Associate Editor

8.	Dr. Nick C. Van de Giesen	Netherlands	Associate Editor
9.	Dr. Marcel Kuper	France	Associate Editor
10.	Mr. Bernard Vincent	France	Associate Editor
11.	Dr. Takao Masumoto	Japan	Associate Editor
12.	Dr. Biju George	Australia	Associate Editor
13.	Dr. Henk Ritzema	Netherlands	Associate Editor
14.	Prof. Waldo Ojeda-Bustamante	Mexico	Associate Editor
15.	Prof. Kendall C. DeJonge	USA	Associate Editor
16.	Prof. Saleh Taghvaejan	USA	Associate Editor
17.	Prof. Graziano Ghinassi	Italy	Associate Editor
18.	VPH Laszlo Hayde	Hungary	Associate Editor
19.	Dr. Muhammad Latif	Pakistan	
20.	Dr. Vijay Labhsetwar (ICID Central Office)	India	
21.	Dr. Yohei Sato	Japan	
22.	Prof. Ir. Dr. Mohd Amin bin Mohd Soom	Malaysia	
23.	Dr. Mohammad Javad Monem	Iran	
24.	Prof. Dr.-Ing. Klaus Rotzcher	Germany	
25.	Prof. dr. Joong Dae, Choi	Korea	
26.	Mr. Brent Paterson	Canada	
27.	Ir. Simon Howarth	UK	
28.	Dr. Poolad Karimi	Iran	Associate Editor
29.	Prof. Jin-Yong Choi	Korea	Associate Editor
30.	Dr. Severine Tomas	France	Associate Editor

III.K.4 — TF-MTD

No.	Members	Country	Remarks
1.	VPH Dr. Ding Kunlun	China	Chair
2.	Chair of WG-IDM		
3.	Dr Yu-Chuang Chang (WG-IOA)	Chinese Taipei	
4.	Chair of WG-SON-FARM		
5.	Chair of WG-SDRG		
6.	Chair of WG-M&R		
7.	Representative of FAO		
8.	Representative of IWMI		
9.	Representative of ADB		

III.K.5 — TF-VE

No.	Members	Country	Remarks
1.	Dr. Kamran Emami	Iran	Chair
2.	Mrs. Remziye Yildiz	Turkey	Vice-Chair

	Gulagaci		
3.	Ir. Nor Hisham M. Ghazali	Malaysia	Secretary
4.	VPH Francois Brelle	France	
5.	Mr. Suman Sijapati	Nepal	
6.	Dr. Toshihiko Kuno	Japan	

III.K.6 — TF-WWF8

No.	Members	Country	Remarks
1.	PH Dr. Chandra Madramootoo	Canada	Chairman
2.	Dr. Amgad Elmahdi	Australia	
3.	Ing. Helvecio Mattana Saturnino	Brazil	
4.	VPH Laurie C. Tollefson	Canada	
5.	Vice President Hon. Dr. Ding Kunlun	China	
6.	Mr. Anuj Kanwal	India	
7.	Mr. Ali Reza Salamat	Iran	
8.	Mr. Alaa Turki Khudhair Al-Masoodi	Iraq	
9.	Mr. Waleed Kh. Qassim Alhadidi - Young Professional	Iraq	
10.	VPH Dr. Shinsuke Ota	Japan	
11.	VPH Dr. Bong Hoon Lee	Korea, Rep. of	
12.	MXCID representative	Mexico	
13.	PH Dr. Bart Schultz	Netherlands	
14.	Dr. Somkiat Prajamwong	Thailand	
15.	Mr. Ijsbrand H. de Jong	World Bank	
16.	Er. Avinash C. Tyagi, Secretary General, ICID – Member Secretary		

III.O.1 — WG-PQW

No.	Members	Country	Remarks
1.	Dr. (Ms.) Anna Tedeschi	Italy	Chair
2.	Dr. Wenyong Wu	China	Secretary
3.	Dr. Tapas Kumar Biswas	Australia	
4.	VPH Dr. Samia El-Guindy	Egypt	
5.	VPH Dr. Karim Shiati	Iran	
6.	Dr. Takanori Nagano	Japan	
7.	Dr. Seung Heon Lee	Korea, Republic of	
8.	Prof. Leon van Rensburg	South Africa	
9.	VPH Dr. R. Ragab	UK	
Permanent Observers			
10.	FAO representative		

11.	ICBA representative (UAE)	UAE	
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III.O.2 — WG-SON-FARM			
No.	Members	Country	Remarks
1.	Dr. A.K. Randev, Chairman	India	Chairman
2.	Mr. Carl Walters, Vice Chair	Australia	Vice Chair
3.	Mr. Suman Sijapati, Secretary	Nepal	Secretary
4.	Mr. Yao Bin	China	
5.	Dr. Zhang Guohua, Young Professional	China	
6.	Dr. Chen, Ching-Tien	Chinese Taipei	
7.	Mr. S.P. Jadhav (Direct Member), JISL	India	
8.	Mr. Hassan Shantia	Iran	
9.	Dr. Hossein Dehghanisanij	Iran	
10.	Mr. Suhad Jassim Obeed	Iraq	
11.	Mr. Hussein Shanan Abid Al-Hussein, Young Professional	Iraq	
12.	Dr. Graziano Ghinassi	Italy	
13.	Dr. Akira Iwamoto	Japan	
14.	Prof. Chang Eon Park	Korea, Rep. of	
15.	Mr. Mohd Yazid bin Abdullah	Malaysia	
16.	Mr. Bashu Dev Lohanee	Nepal	
17.	Dr. Abraham Mehari Haile	Netherlands	
18.	Dr. Dickson Ahagbuje	Nigeria	
19.	Mr. Muhammad Tahir Anwar	Pakistan	
20.	Mr. Siboniso Phillip Mkhali	South Africa	
21.	VPH Jose A. Ortiz	Spain	
22.	Eng. S. Mohanarajah	Sri Lanka	
23.	Mr. Ömer Faruk Akbulut	Turkey	
Permanent Observers			
24.	Mr. Sher Singh	India	
25.	Mr. M.S. Sudhakar (Direct Member), JISL	India	
26.	Mr. Abijit Joshi (Direct Member), JISL	India	
27.	Dr. Jano Anter	Germany	
28.	Mr. Bruno Molle (ISO)	France	
29.	FAO Representative		

III.O.3 — WG-WATER & CROP			
No.	Members	Country	Remarks
1.	VPH Ragab Ragab	UK	Chair

2.	VPH Laurie C. Tollefson	Canada	Vice-Chair
3.	Dr. K. Yella Reddy	India	Secretary
4.	Prof. Dr. Mohd Amin Mohd Soom	Malaysia	
5.	Mrs. Gao Hong	China	
6.	Prof. Dr. Allah Bakhsh	Pakistan	
7.	Ir. Adang Saf Ahmad	Indonesia	Provisional Member
8.	Dr. P. Soman (Direct Member), JISL	India	Provisional Member
9.	Prof. Won-Ho Nam	Korea	
10.	Mr. Syaiful Mahdi	Indonesia	Observer
11.	FAO representative		Permanent Observer
12.	CIGR representative - Mr. Herbert H. Van Lier		Permanent Observer
13.	Prof. D. Wrachien	Italy	Permanent Observer
14.	ICRISAT representative		Permanent Observer

III.S.1 — WG-IDM			
No.	Members	Country	Remarks
1.	Ms. Mary Jean M. Gabriel	South Africa	Chair
2.	Mr. Ahmet Şeren	Turkey	Vice Chair
3.	Dr. Katsuyuki Shimizu	Japan	Secretary
4.	Dr. Amgad Elmahdi	Australia	
5.	Dr. Wu Jingwei	China	
6.	Mr. Ming-Young Jan	Chinese Taipei	
7.	Mr. Waleed Hassan	Egypt	
8.	Eng. Mohammed Omar Makram Afify – Young Professional	Egypt	Provisional Member
9.	VPH Francois Brelle	France	
10.	Mr. G.L. Bansal	India	
11.	Dr. Narges Zohrabi	Iran	
12.	Ir. Mat Hussin Bin Ghani	Malaysia	
13.	Mr. Tariq Altaf	Pakistan	Provisional Member
14.	Eng. Abd Elsalam Mohamed Salih Idriss	Sudan	
Permanent Observers			
15.	VP Ian Makin (UK)	UK	
16.	VPH Hafied Gany (Indonesia)	Indonesia	

III.S.2 — WG-IOA			
No.	Members	Country	Remarks
1.	VPH Dr. Hafied A. Gany	Indonesia	Chairman
2.	Dr. Kazumi Yamaoka	Japan	Vice Chairman
3.	Mr. Madhav Belbase	Nepal	Secretary

4.	VPH Dr. Ding Kunlun	China	
5.	Dr. Yu-Chuan Chang	Chinese Taipei	
6.	Mr. Franck Sanfilippo	France	
7.	Mr. Houshang Hasouni Zadeh	Iran	
8.	Mr. Ghassan Lutfi Ahmed	Iraq	
9.	Ms. Hend Emad Alhendy - Young Professional	Iraq	
10.	Dr. Seong Joon Kim	Korea, Rep. of	
11.	Mr. Abdullahi Abdul Rahman	Nigeria	
12.	Dr. Qazi Tallat Mahmood Siddiqui	Pakistan	Provisional Member
13.	Mr. Hasan Basri Yuksel	Turkey	
14.	Mr. Philip J. Riddell	UK	
15.	VPH Franklin Dimick	USA	

III.S.3 — WG-M&R			
No.	Members	Country	Remarks
1.	VP Ian Makin	UK	Chairman
2.	Dr. Dong Bin	China	Vice Chairman
3.	Engr. Muhammad Sani Bala	Nigeria	Secretary
4.	Dr. Sanjay Belsare	India	
5.	Ir. Eko Subekti	Indonesia	
6.	Mr. Mehrzad Ehsani	Iran	
7.	Mr. Ali Omran Ali	Iraq	
8.	Mr. Firas Hussain Ali – Young Professional	Iraq	
9.	Dr. Yohei SATO	Japan	
10.	Dr. Kwang-Sik Yoon	Korea, Rep. of	
11.	Mr. Mohd Yazid bin Abdullah	Malaysia	
12.	Mr. Bir Singh Dhami, Young Professional	Nepal	
13.	Mr. Usman-e-Ghani	Pakistan	
14.	Mr. Puleng Mofokeng	South Africa	
15.	Ms. Meral Çiçek	Turkey	
16.	Mr. Vyacheslav Rozhon	Ukraine	
17.	Dr. Brian T. Wahlin	USA	
Permanent Observers			
18.	Mr. Alan Kendall Clark	UK	
19.	FAO Representative- (Ms. Robina Wahaj)		

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

III.S.5 — WG-WATS			
No.	Members	Country	Remarks
1.	Mr. Mehrzad Ehsani	Iran	Chairman
2.	VPH Adama Sangare	Mali	Vice Chairman
3.	Mr. Mortaza Yazdekhasti - Young Professional	Iran	Secretary
4.	Ms. Jianxin Mu	China	
5.	VPH M. Hassan Amer	Egypt	
6.	Dr. P. Soman – Direct Member, Jain Irrigation Systems Limited – JISL	India	
7.	Mr. Kamal Kumar Jangid	India	

8.	Mr. Abijit Joshi – Direct Member, JISL	India	
9.	Mr. Dhuha Mahmood Hussein	Iraq	
10.	Mr. Mohammed Alaa Dheyaa - Young Professional	Iraq	
11.	Prof. Michele Perniola	Italy	
12.	Prof. (Ms.) Kyung- Sook Choi	Korea, Rep. of	
13.	Dr. Ashfaq Ahmed Sheikh	Pakistan	Provisional Member
14.	Dr. Joe Stevens	South Africa	
15.	Eng. S. Mohanarajah	Sri Lanka	
16.	Dr. Hassan Aboalbasher Ali	Sudan	
17.	Mr. Yalçin Dalgin	Turkey	
Permanent Observers			
18.	Mr. S.P. Jadhav – Direct Member, JISL	India	
19.	IWMI Representative- Mr. Ian W. Makin	UK	
20.	FAO Representative- (Ms. Robina Wahaj)		

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



FEE STRUCTURE FOR ICID EVENTS IN 2018, 2019 and 2020

Year	2018	2018	2019	2019	2020
Venue	Kathmandu, Nepal	Saskatoon, Canada	Aurangabad, India	Bali, Indonesia	Sydney, Australia
Event	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
Full registration	\$500	\$ 750	\$500	\$700	\$800
Non-member fee	\$650	\$ 800			\$ 900
Young Professionals (International)	\$250	\$ 375	\$250	\$400	\$400
Retired professionals (International)	\$ 250	\$ 375	\$250	\$400	\$400
Accompanying Persons (International)	\$ 150	\$ 300	\$200	\$300	\$ 300
Local / Delegates	\$ 150	\$ 400	\$200	\$200	\$800
Young Professionals (Local)			\$100		



**Report of the 38th Meeting of the
PERMANENT FINANCE COMMITTEE (PFC)
09 October 2017 : 14:00-17:30 Hous
Mexico City, Mexico**

Members Present: (1) Vice President Hon. Laurie Tollefson, Chairman (Canada, 2013); (2) President Hon. Prof. Dr. Bart Schultz (The Netherlands, 2011); (3) Mr. Hao Zhao (China, 2012) represented by Ms. Li Ruoxi; (4) Mr. Naoki Hayashida (Japan, 2014); (5) VP Dr. Irene Bondarik (Russia, 2014); (6) Mr. Ali Reza Salamat (Iran, 2016) and (7) Er. Avinash C. Tyagi, Secretary General, ICID.

Observers Present: (1) PH Peter S. Lee (UK); (2) VPH Dr. Laszlo G. Hayde (Hungary); (3) Mr. Marco Arcieri (Italy); (4) Mr. Mitsuo Ishijima (Japan); (5) VPH Er. A.B. Pandya (India); (6) Mr. Evan Derald (Canada); (7) Mr. Syaiful Mahdi (Indonesia) and (8) Mr. Yuta Takeno (Japan).

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

1. PFC noted that the Chairman VPH Laurie Tollefson will be retiring at the conclusion of the 68th Council meeting and requested the Chair to continue for one more term of three years. VPH Laurie agreed the proposal to continue as Chair for another term of three years. The Committee considered the nomination of Dr. Marco Arcieri, Secretary General, ITAL-ICID for the membership of the Committee and recommended that his nomination be accepted.

2. The Committee thanked PH Bart Schultz for his contribution to the work of the Committee, at the completion of term of office of six years as member of of the Committee.

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

3. Based on the report of DMA Sub-committee, the PFC recommended to IEC for acceptance of the following as Direct Members of ICID. PFC also considered the proposal of Life Membership (Individual) from Prof. Deepak Khare (India) and accepted it, subject to no-objection from the Indian National Committee.

Sl. No.	Name of Applicants	Country	Type of Membership Applied for
1.	Mr. L.B. Roy	India	Life Membership (Individual)
2.	Dayu Water Saving Group Co. Ltd.	China	Company
3.	Electrosteel Castings Ltd.	India	Company
4.	Mr. Klaus Rottcher	Germany	Individual

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

4. PFC noted with regret that the NCs of Brazil, Spain, Zimbabwe, and Saudi Arabia have not cleared their subscription dues for the years 2014, 2015 and 2016, besides the subscription for the year 2017. Several requests have been made to these NCs to clear their balance of subscription. PFC considered and recommended to IEC to apply By-law 13.2 to the above named National Committees. IEC as per the rules decided to give them a final chance to clear their dues by 31st December 2017, failing which they would be relegated to the associate membership category.

5. Since, National Committees of Chad, Madagascar, Tanzania, Tajikistan and Ukraine have not cleared their outstanding dues of two years, in addition to the current year 2017, PFC considered and recommended that IEC may apply By-law 13.1 to above National Committees, debarring them from holding any office whether it be as Office Bearer or as a member of a work body until such time the arrears are paid.

6. PFC noted that Afghanistan National Committee has expressed their willingness to rejoin ICID and rejuvenate their membership and have deposited the Annual subscription for the year 2017. PFC considered the case under By-law 13.5, and recommended that they be admitted as a member with immediate effect.

PFC Minutes Item 4: Review of the financial status of recently held ICID events**PFC Minutes Item 4.1: 4th African Regional Conference on Irrigation and Drainage, Cairo, Egypt, 26-28 April 2016**

7. PFC thanked ENCID for making a special contribution to ICID budget amounting to US\$ 2,734 as its 5% share from the registration fee collected (US\$ 54,680) for the 4th African Regional Conference held in Cairo, Egypt, 26 - 28 April 2016. The Committee recommended that IEC may like to record its appreciation to ENCID for the successful organization of the Regional Conference and contribution to ICID budget.

PFC Minutes Item 4.2: 67th IEC and 2nd WIF Meeting, Chiang Mai, Thailand, 08-12 November 2016

8. PFC thanked THAICID for making special contribution to ICID budget amounting to US\$ 80,159 as its 35% share from the registration fee collected (US\$ 229,025) for the 67th IEC and WIF2 meetings held in Chiang Mai, Thailand from 08-12 November 2016. The Committee recommended that IEC may like to record its appreciation to THAICID for the successful organization of 67th IEC and WIF2 meetings and contribution to ICID budget.

PFC Minutes Item 4.3: 13th International Drainage Workshop, Ahwaz City (Khuzestan Province), Iran, 04-07 March 2017

9. PFC thanked IRNCID for making special contribution to ICID budget amounting to US\$ 1,000 as its 5% share from the registration fee collected (US\$ 20,000). The Committee recommended that IEC may like to record its appreciation to IRNCID for the successful organization of 13th International Drainage Workshop and contribution to ICID budget.

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

10. PFC noted that IEC has already approved the fee structure for the 70th IEC and 3rd World Irrigation Forum (WIF3), Bali, Indonesia, October 2019; and 71st IEC and 24th Congress, Sydney, Australia, 22-28 September 2020, based on host NC presentations. PFC considered the financial proposals presented by the host NCs for the events that have been already approved by IEC in its earlier meetings in respect of 69th IEC and America Regional Conference, Saskatoon, Canada from 12-17 August 2018; 8th Asian Regional Conference in Kathmandu, Nepal, from 02 - 04 May 2018 and 9th Micro Irrigation Conference at Aurangabad, India, in January 2019 which are reproduced below in a tabular format.

11. The NC of Canada suggested a registration fee of US\$ 800 for delegates from non-member countries, while the NC of Indonesia agreed to have a reduced full registration fee of US\$ 700 in place of earlier proposed US\$ 800 as tabulated below. The Council may approve the revised registration fees suggested by NCs of Canada and Indonesia which needs to be appreciated as this will result in greater participation in the respective annual events of ICID.

Venue / Year	Kathmandu, Nepal, 2018	Saskatoon, Canada, 2018	Aurangabad, India, 2019	Bali, Indonesia, 2019	Sydney, Australia, 2020
Event	8th ARC	69th IEC and Regional Conference	9th IMIS	70th IEC and 3rd WIF	71st IEC and 24th Congress
Full Registration	\$500	\$ 750	\$ 500	\$ 700	\$ 800
Non-Member Fee	\$650	\$ 800			\$ 900
Young Professional (International)	\$250	\$ 350	\$ 250	\$ 400	\$ 400
Young Professional (Local)			\$ 100		
Local Delegates	\$150	\$ 400	\$ 200	\$ 200	\$ 800

Venue / Year	Kathmandu, Nepal, 2018	Saskatoon, Canada, 2018	Aurangabad, India, 2019	Bali, Indonesia, 2019	Sydney, Australia, 2020
Retired Professionals (International)	\$250	\$ 375	\$ 250	\$ 400	\$ 400
Retired Professional (Local)			\$ 100		
Accompanying Persons (International)	\$150	\$ 300	\$ 200	\$ 300	\$ 300
Accompanying Persons (Local)			\$ 100		

PFC Minutes Item 6: To discuss the audited accounts of ICID for the year 2016-2017 and recommend to the IEC

12. The Committee considered the Audit Report of M/s P.K. Chopra & Co., Statutory Auditors for the financial year 2016-2017 presented in Annex 1, page 33 of PFC agenda notes. The PFC having been satisfied with the report, recommended that the the Audit Report for the FY 2016-2017 submitted by M/s P.K. Chopra & Co., be approved.

13. The Committee noted that the arrears of subscriptions during the current year represent the normal time lag in remittance of subscription by NCs.

14. The Committee noted with concern that the current Foreign Currency Account in HSBC Bank in London, is presently non-operative (Refer the Minutes of 37th PFC, Item No. 6, Para No. 18) and the Bank has intimated that they would not like to provide ICID their services. PFC recommended that the HSBC Accounts may be closed and the balance amount, along with the Fixed Deposits therein may be transferred to ICID bank accounts in India at the earliest opportunity.

15. PFC noted that the financials i.e. Balance Sheet, Income & Expenditure Account and Receipts & Payment Account of the ICID Employees Provident Fund Trust for the year 2016-2017 were also audited by the statutory auditor M/s P.K. Chopra & Co. The Committee noted that ICID EPF Trust (as a private trust) was de-recognized w.e.f. 01 April 2013 onwards. Consequently, the individual accounts of ICID staff members have been shifted to Employees' Provident Fund Organisation (EPFO) w.e.f. 01 April 2013. Hence, the ICID EPF Trust is in the process of dissolution, the Committee noted.

PFC Minutes Item 7: Budget and Expenditure for the FY 2016-2017

16. The Committee noted the expenditure during FY 2016-2017 against the budget and approved the same. It noted that there has been an overall surplus of ₹ 1.29 million (US\$ 19,591) against a budgeted surplus of ₹ 0.36 million (US\$ 5,485) envisaged during FY 2016-17.

17. The Committee noted with appreciation that during the FY 2016-2017, an amount of ₹ 3.35 million (US\$ 50,000) as a Special Subscription from CNCID/Ministry of Water Resources, China; ₹ 0.31 million (US\$ 5,000) from JNC-ICID for supporting the publication of Special issue of ICID Journal on Sustainable Development in Tidal Areas (SDTA); and ₹ 0.66 million (US\$ 10,000) towards supporting a Side Event 2 organized during WIF2 as special subscription from KCID were recieved.

18. Further, an amount of ₹ 1.25 million (US\$ 20,156) against capacity development program (specifically for DPR Korea) and ₹ 0.33 million (US\$ 5,000) towards supporting the newly established Technical Support Unit (TSU) were received from KCID during the FY 2016-2017.

19. PFC put on record its appreciation for the NCs of China, Korea and Japan for the financial support provided for ICID activities.

PFC Minutes Item 8: To consider revised budget proposal for the current FY 2017-2018; budget proposal for FY 2018-2019; preliminary budgets for FY 2019-2020 and forecast budget for FY 2020-2021

20. The committee noted that the Central Office is operating with 17 staff members (with two positions remaining vacant) and that the budget proposals includes salaries of ICID staff at the revised pay scales based on the Report of ICID Staff Pay Revision Committee and approved by the Staff Committee in its meeting held on 7 October 2017 in Mexico City, Mexico.

21. The Committee considered the revised budget for the FY 2017-2018 and the budget proposal for the FY 2018-2019, preliminary budget for 2019-2020 and forecast budget for 2020-2021. It noted with concern that there is likelihood of deficit during the FY 2017-18 and FY 2018-19. On query from the members, it was clarified that the expenditure has been rising with rise in income due to the fact that the about 35% of the increase in income, largely attributed to increased rent from office building, also increases the expenditure in terms of taxes. It was pointed out that during the last three-four years all the outstanding liabilities, including the provisions for gratuity and leave salaries, have been provided for. The Committee appreciated the efforts made to settle all past ICID financial liabilities.

22. The committee recommended to IEC for the approval of the revised budget for FY 2017-2018 and the proposed budget for FY 2018-2019, presented in **Annex 1** and noted the preliminary budget for FY 2019-2020 and forecast budget for 2020-2021.

PFC Minutes Item 9: Surplus/Deficit and Cash Reserves

23. The Committee noted that the total Cash Reserves as at the beginning of the FY 2017-2018 is only ₹ 38.61 million (US\$ 585,061) which is less than the 50 percent of the annual expenditure. The Committee agreed to the proposal to build a cash reserve equivalent to one year's expenditure to begin with on an incremental basis.

PFC Minutes Item 10: Report of the Task Force on 'Review of Annual Subscription' (TF-AM)

24. The Chair of TF-AM, VPH Laurie Tollefson presented the report of the TF during the meeting. The Committee reiterated its confidence in the basic structure of the formulae, prevalent for more than forty years. There was wide support on the rationalization and updation of the subscription formulae. At the same time the Committee also noted concern from some NCs on the substantial rise in annual subscription. The Committee after deliberations and subsequent discussions, recommended that the 1991 formulae being used presently be updated as follows:

The revised formulae:

$$S(2017) = \{1515 + \text{UNC} + 1900 A^{**0.35}\} \times \{\text{InF}\} \dots \quad \{\text{for NC with } A > 9.35 \text{ M}\}$$

$$S(2017) = \{1515 + \text{UNC} + 1360 A^{**0.5}\} \times \{\text{InF}\} \dots \quad \{\text{for NC with } A < 9.35 \text{ M}\}$$

Where,

(i) S(2017) is the subscription in US \$;

(ii) UNC, for countries paying UN contribution

< 0.30 per cent:	UNC = 0.
>0.3 per cent but < 0.6 per cent:	UNC = US \$ 725
>0.6 per cent but < 1.5 per cent:	UNC = US \$ 1450
>1.5 per cent but <3.0 per cent:	UNC = US \$ 2175
> 3.00 per cent:	UNC = US \$ 2900

(iii) A is the Weighted Benefitted Area calculated as follows:

$$\text{Weighted Benefit area} = \text{IA} + (0.5) * \text{DA} \dots \dots \text{if IA} > \text{DA}$$

$$\text{Weighted Benefit area} = \text{DA} + (0.5) * \text{IA} \dots \dots \text{if DA} > \text{IA and Irrigated Area (IA); Drainage Area (DA)}$$

(iv) In F is the cumulative Inflation Factor for three years as obtained from the IMF data?

25. PFC recommended that based on the above formulae, the annual contributions from the members be decided as follows:

- (a) The annual subscriptions rates shall be recalculated every three years during the meeting of IEC in the Congress year.
- (b) In order to have a smooth transition to the new subscription, the NCs will be provided an opportunity up to 31st December 2017 to indicate, if the Benefitted Areas shown in Table 1 (**Annex 4, page ___ of IEC minutes**) and used in calculating the subscription are correct or not.
- (c) The NCs, if they find the areas used are correct, may indicate how they would like to have transition into the new subscription regime within the next three years.
- (d) If no objection is received from the NC, the new annual subscription would be raised by CO as per the calculations in the Table 1 .
- (e) In case objection is raised due to reconciliation of the irrigated and drained area figures, the matter will be placed before the PFC, who will take the final decision through a virtual meeting before 31st March 2018 and ratified by IEC through circulation among the NCs.

26. The Committee appreciated the Financial Sustainability Report presented by the Secretary General to the TF and PFC, which was found to be comprehensive. The Committee noted that it was for the first time that ICID had undertaken its financial sustainability assessment. PFC fully supported the methodology adopted in the report by undertaking risk analysis under various scenarios. The Committee had detailed discussions on the report and its recommendations.

27. PFC observed that there is a case for the Committee to be able to draw more upon the experience of financial experts from more NCs and keep a closer watch on the financial health of the organization. PFC also observed that the format of the Financial Report presented by the SG is required to be standardised. PFC decided to review the financial position of the organization more closely vis-a-vis the Action Plan of the organization and monitor the long-term financial sustainability of the organization once in every five years.

28. PFC noted that the financial assets such as operating funds in the banks should be invested more professionally. Possibility of investing some of the operating reserves in other financial instruments such as Mutual Funds (with low risks), needs to be explored.

29. PFC recommended that ICID should be able to steadily build up a reserve equivalent to the expenditure of the previous year since there is large fluctuation in the revenue resources and certain risks which need to be hedged against. Efforts should be made to reach this target steadily but as early as feasible.

30. PFC recommended that ICID events (WIF, Congresses and Regional Conferences) together with Exhibition need to be conducted more professionally thereby enhancing their financial contribution and effectiveness.

31. PFC agreed that additional office space needs to be built to generate more income from rent. The funds required for construction of the additional office space, is approx. Rs 70 million. However, PFC advised SG to explore the possibility of obtaining loan for the construction of the additional office space while avoiding loan from YES Bank, that may compromise ICID's position in negotiating the market rent for its space.

32. PFC observed that in order to implement strategies, programs and activities as per the Road Map to ICID Vision 2030, ICID needs to adopt more entrepreneurial routes to financial sustainability by investigating the scope for additional resource mobilization. One possibility could be to generate income by establishing business (es) Considering that this is a new area, PFC recommended that a special Task Force may be set up to explore the feasibility of establishing an independent business unit related to ICID mission (e.g., capacity development and professional certification), whose profits could plough in as revenue to ICID budget.

PFC Minutes Item 11: Report of the Task Team on 'Registration Fees for ICID Events' (TT-RF)

33. PFC noted that the registration fee for the ICID events is largely within the purview of the Host NCs as they have to ensure that the event is financially viable. The registration fee for various ICID events has been constant for the last five years and the registration fees for the forthcoming events remain in the same range. It is also noted that compared with other international events of the magnitude of ICID, ICID registration fee structure is very reasonable.

34. PFC recommended that the future host organizers may be asked to suggest two tier system of registration fee structure so that those experts which are not able to afford high registration fee may get an option with lower registration fee and are also able to join ICID events.

PFC Minutes Item 12: Miscellaneous

35. PFC noted with concern that ICID FCRA Registration Number has been cancelled due to delay in submission of FCRA annual returns in the past due to administrative oversight. As a consequence, ICID is able to receive only membership subscription, registration fees, royalty from M/s Wiley-Blackwell and special subscription from members. CO will not be able to receive foreign grants until the time, a fresh FCRA registration number be allotted. PFC also noted that the ICID PF Trust is in the process of dissolution and the PF of CO employees is now being handled by the Employees Provident Fund Organization of Government of India.

36. Considering that this meeting of PFC would be the last meeting of the Secretary General Avinash Tyagi, PFC members expressed their appreciation for bringing the financial system of ICID transparent and clearing all the past liabilities, thereby providing ICID the much required financial stability.

37. The meeting concluded with vote of thanks to the Chair.



**Report of the 28th Meeting of the
PERMANENT COMMITTEE ON STRATEGY AND ORGANIZATION (PCSO)
12 October 2017, 13.30-17.00 hours
Mexico City, Mexico**

Members Present: (1) Vice President Bong Hoon Lee, Chairman (Korea, 2014); (2) Vice President Hon. Er A.B. Pandya (India, 2013); (3) Vice President Dr. Mohamed Abd-El-Moneim Wahba (Egypt, 2014); (4) Vice President Dr. Ding Kunlun (China, 2014); (5) Vice President Prof. Dr. Charlotte de Fraiture (The Netherlands, 2015); (6) Vice President Mr. Ian William Makin (UK, 2015); (7) Vice President Dr. (Mrs.) Irena G. Bondarik (Russia, 2016); (8) Vice President Mr. Waseem Nazir (Pakistan, 2016); (9) Vice President Er. Madhav Belbase (Nepal, 2016) and (10) 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) and Vice-Chair, PCSO; (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 27th Meeting of PCSO

1. The Committee noted the Action Taken Report and approved the same.

PCSO Minutes Item 2: Membership of PCSO and its Workbodies

2. The Committee recalled that IEC in its 67th Meeting had nominated Ms. Kathleen Heuvel (Coordinator, IYPeF) as Vice Chair of PCSO. Presently, there is no such provision in of Article 3.9.5 (c) of the By-laws. The Committee therefore recommended that appropriate changes in the Article 3.9.5 (c) of the By-laws may be made as below:

“The Permanent Committee on Strategy and Organization will be composed of the incumbent Vice-Presidents, the Secretary-General, the Coordinator of IYPEF and three immediate past Vice-Presidents”.

[Later IEC, on the advice of the Sub-Committee on Constitutional Changes, however, advised that the proposed amendment may be taken up next time and till that period, the Vice Chair may be included as Observer to the Committee.]

3. Based on the recommendations of the various workbodies associated with it, PCSO reviewed the membership and recommended for acceptance by the Council. 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 7 (Page 55) of 68th IEC minutes.

PCSO Minutes Item 3: Membership of ICID

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

4. The Committee noted with regret that as many as 4 NCs would attract provisions of Bye-law 13.2 and would be relegated to associate membership with effect from January 2018. The Committee also took note of the status of the direct membership.

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

5. The Committee noted the efforts made by the Vice Presidents in strengthening the regional cooperation and activities of National Committees allocated to them. The Committee appreciated the efforts of President Dr. Nairizi, VP Bong Hoon Lee, VP Dr. Irene Bondarik for their efforts in furthering the membership of ICID.

6. The Committee noted the new membership applications for ICID from Azerbaijan, Georgia and Vietnam. The Committee recommended to the Council that Azerbaijan, Georgia and Vietnam may be admitted as ICID members with effect from 01 January 2018 subject to their payment of the subscription fee for the year 2018 before 31 December 2017. Georgia may also be requested to submit an endorsement from the government, as their present application is submitted by a public sector undertaking.

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

7. The Committee noted and supported the proposal for granting Direct Membership to five new applicants, as per the recommendations of DMA Sub-Committee, while the fifth applicant Prof. Deepak Khare's admittance as a Direct Member, is subject to no objection from Indian NC.

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

8. The Committee considered the suggestion made by SG on behalf of the Chair of the TF, VPH Dr. Huseyin Gundogdu to close the TF-REV. It recommended that the progress of further work of Task Force is dependent entirely on ERWG, and accordingly it may be requested to undertake further analysis in respect of European NCs and submit their report to PCSO. The Committee appreciated the work done by the TF-REV and recommended that the TF may be closed.

PCSO Minutes Item 4: Road Map to ICID Vision 2030: The Monitoring Mechanism

9. The Committee deliberated upon the "Road Map to ICID Vision 2030", which provides new vision, mission, organizational goals, and strategies to put Vision into Action. The Committee considered the Action Plan for 2017-21 where the activities identified by the various WGs, RWGs, NCs and Central Office to implement the identified strategies, have been provided.

10. The Committee felt the need for a mechanism in order to monitor the Action Plan. It recommended that the WGs may be requested to monitor the progress of activities and report it to their respective Permanent Committees vis-à-vis the activities identified in the Action Plan. It also recommended that the Co-Theme Leaders should also take stock of the progress of WGs under the Action Plan in their synthesis report to PCTA.

PCSO Minutes Item 5: Knowledge Management Strategy (KMS)

11. The Committee acknowledged the need for a more integrated approach of Knowledge Management within ICID, being a knowledge based network, and particularly in view of the 'Road Map for ICID Vision 2030'. It appreciated SG for presenting a Draft Knowledge Management Strategy to deal with the new requirements. The Committee considered the "Concept note on the Knowledge Management Strategy (KMS)" placed at Annex 4 (of WG-CDTE), page 133 of 68th IEC Agenda Notes. The Committee broadly agreed to the approach adopted in the strategy and hoped that the Central Office will be able to provide more support to the WGs to be able to contribute to the implementation of the strategy and appreciated the fact that a dedicated team has been established in the Central Office for the purpose. The Committee desired that the draft strategy may be firmed up during the next year in consultation with various stakeholders and a final version of the strategy may be brought forward to the next meeting of PCSO during 69th IEC in Saskatoon in 2018.

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 2016-17.

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

13. VP Dr. Mohamed Wahba, Chair of AFRWG presented its report. The Committee noted with appreciation the offer of Morocco to host the 5th African Regional Conference and suggested that the ANAFIDE may submit their proposal by providing relevant information in 'Form A', duly considering the schedule of other ICID events. The members noted that the paper on 'Green Revolution in Africa' is pending for quite some time and decided that the Chair and Ex-Chair would come out with a draft soon for circulation among NCs for their inputs so that it could be completed by the next IEC in Saskatoon, Canada in 2018. The Group also decided to develop a training needs assessment document and organize two virtual meetings during the intervening period.

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

14. VP Ian Makin, Chair of ERWG presented its report. The Committee noted with concern the decreasing interest in the countries in the region. It noted the efforts being made for increasing the membership in the region and the increasing involvement of the Young Professionals.

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

15. VPH Dr. Karim Shiati, Chair of ASRWG presented its report. The Committee noted the linkages being developed among various NCs to promote cooperation among themselves as well as with regional and transnational organizations, e.g. Chinese Taipei (CTCID), Indonesia (INACID) and Malaysia (MANCID); and proposed cooperation between Iran (IRNCID) and Italy (ITAL-CID) and Korea (KCID) and Nepal (NENCID). The WG reported that ASRWG-Report titled "Contribution of Agricultural Water to the Rural Development in Asia" is planned to be published in 2017 and eventually ready for distribution at WWF8 in Brasilia, Brazil in March 2018.

PCSO Minutes Item 7.4: American Regional Working Group (AMRWG)

16. SG briefly presented the efforts that have been made in reviving the American Regional Working Group. He also presented the requests originating from the special meeting of the Countries from Latin America, organized by MXCID, particularly regarding grant of regional membership, in place of individual country membership. PCSO recommends that a Special Task Team may be constituted by the Council which after interaction with the Latin American countries and considering the organizational and financial aspects of the proposal may submit its report at the earliest.

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

17. The extended tenure of the WG was up to 2017. VPH Prof. Peter Kovalenko, Chair presented its report and the revised mandate based on the scoping document approved by the WG. Based on the report, the Committee recommended establishing a WG on Irrigation and Drainage in States under Socio-Economic Transformation (WG-IDSST) with revised mandate.

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

18. Mr. Sean Cazares (MXCID), on behalf of the Chair presented its report. The Committee appreciated the efforts made by MXCID in organizing a successful event despite the challenges posed by the devastating earthquake. The Committee noted that the SG has submitted a proposal in the form of Draft Letter of Agreement (LoA) between the Central Office and the Host National Committees of ICID events. The Committee recommended that a TT may be constituted to review the Draft LoA which may be submitted for consideration of IEC through the relevant work bodies at its next meeting.

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

19. Ms. Kathleen Heuvel, Coordinator of IYPeF presented her report. Committee noted with satisfaction that the Forum is being organized successfully and has generated interest of YPs in ICID activities. The YPs are actively interacting among themselves throughout the year. However, YPs are lacking support from the expert members of ICID. PCSO urged ICID experts to come forward and help in mentoring the YPs.

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)**

20. SG informed that the SC-E-THEMES is looking closely at the quality of response papers to the Questions dealt within the Congress. PCSO noted that a team is likely to look into the overall organization of the events from technical perspective to ensure that the outputs from Congress and WIFs are of good quality. It also noted that the Sub-Committee is monitoring the follow up actions on the major recommendations coming from the declarations of the Congress and WIFs.

21. The Committee endorsed the recommendation of the Sub-Committee that the technical outputs of congress questions should be improved and monitored continually for which there is a need to increase the paper quality with the focus on to answer the designated Questions, including encouraging the NCs and workbodies to organize and recommend authors to write and submit papers. Farmers are the end user of technologies and, therefore, techniques and measures to have them involved in discussions and communications are important. The Committee also endorsed the recommendation of the Sub-Committee that a Farmers' Roundtable should be organized in future WIF by cooperating with other organizations and sponsorship should be mobilized to support farmers' participation at WIF3.



Report of 37th Meeting of the
PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)
 13 October 2017, 09.00-17.00 hours
 Mexico City, Mexico

Members Present: (1) Vice President Dr. Ding Kunlun, Chairman (China, 2015); (2) Prof. Masayoshi Satoh (Japan, 2012); (3) President Hon. Mr. Peter S. Lee (UK, 2013); (4) Vice President Dr. Mohamed Abd-El-Moneim Wahba (Egypt, 2015); (5) Mr. Ali Reza Salamat (Iran, 2015); (6) Prof. Graziano Ghinassi (Italy, 2012); and (7) Er. Avinash C. Tyagi, Secretary General, ICID

Permanent Observers Present: (i) Ms. Patricia Mejias-Moreno, FAO Representative and (ii) 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 & Chair, WG-ENV; (iii) VP Mr. Waseem Nazir (Pakistan), Co-Theme Leader, Strategy Theme – Knowledge; (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 Irene G. Bondarik (Russia), Co-Theme Leader, Strategy Theme – Schemes; (vii) VP Bong Hoon Lee (Korea), Co-Theme Leader, Strategy Theme – On- Farm; (viii) VP Madhav Belbase (Nepal), Co-Theme Leader, Strategy Theme – On- Farm; (ix) VPH Mr. Larry D. Stephens (USA), Chair, C-PR&P and Secretary, PCTA; (x) PH Prof. Bart Schultz (The Netherlands), Chair, EB-JOUR;; (xi) Dr. Kamran Emami (Iran), Chairman, WG-HIST & TF-VE; (xii) VPH Franklin E. Dimick (USA), Acting Chair, WG-DROUGHT; (xiii) Dr. Ruey-Chy Kao (Chinese Taipei), Chair, WG-SDTA; (xiv) Dr. Tsugihiko Watanabe (Japan), Chair, WG-CLIMATE; (xv) VPH Dr. Ragab Ragab (UK), Chair, WG-CROP; (xvi) Dr. Samia El-Guindy (Egypt), Chair, WG-PQW represented by VPH Dr. Ragab; (xvii) Dr. A.K. Randev, Chair, WG-SON-FARM; (xviii) PH Dr. Chandra A. Madramootoo (Canada), Chair, TF-WWF8; (xix) Dr. Fuqiang Tian (China), Chair, WG-BIO-ENERGY; (xx) Dr. Bernard Vincent (France), Chair, WG-SDRG; (xxi) VPH Dr. Hafied Gany (Indonesia), Chair, WG-IOA; (xxii) VPH Ms. Mary Jean M. Gabriel (South Africa), Chair, WG-IDM; (xxiii) Mr. Mehrzad Ehsani (Iran), Chair, WG-WATS and (xxiv) PH Dr. Gao Zhanyi, Chair, SC-E-THEMES.

Observers Present: (i) President Dr. Saeed Nairizi (Iran); (ii) VPH Felix B. Reinders (South Africa); (iii) VPH Dr. Gerhard Backeberg (South Africa); (iv) VPH Dr. Adama Sangare (Mali); (v) VPH Prof. Laszlo Hayde (Hungary); (vi) VPH Laurie Tollefson (Canada); (vii) VPH A.B. Pandya (India); (viii) VP Mr. Waseem Nazir (Pakistan); (ix) Mr. Naoki Hayashida (Japan); (x) Mr. Hitsu Ishijima (Japan); (xi) Mr. Batali El Houssine (Morocco); (xii) Mr. Hidefumi Murashita (Japan); (xiii) Mr. Yeji Imayoshi (Japan); (xiv) Mr. Stanislaus M. Chisakuta (Zambia); (xv) Mr. Geumjun Lee (Korea); (xvi) Mr. Takeshi Kikutsuji (Japan); (xvii) Dr. Sylvester Mpandeli (South Africa); (xviii) Mr. Marcos Cerrillo (Mexico); (xix) Mr. Yasunori Saiki (Japan); (xx) Mr. Mamoru Watanabe (Japan); (xxi) Mr. Aidan Senzanjee (South Africa); (xxii) Mr. Jalal Aboohassani (Iran); (xxiii) Mr. Gao Lihui (China); (xxiv) Ms. Narges Zohrabi (Iran) and (xxv) Mr. Muhammad Reza Shemsei (Iran).

PCTA Minutes Item 1: Water Accounting and water use efficiency: Presentation

1. Ms. Patricia Mejias-Moreno (FAO) made a presentation on “Water Accounting and Water Use Efficiency” which was appreciated by the members and several questions were discussed. The Committee has taken note of the ICID’s participation in the WWC Members’ initiative on ‘Water Accounting for decision making in the agricultural sector’ and considered the suggestion of ‘Water Accounting as a Policy Tool’. The members pointed out that WA should be able to take in to account the groundwater which constitutes a vital role in agriculture water management and the data gaps to incorporate the same have to be bridged for being useful in real-time operations. It urged experts from member countries to make use of the tools generated under the initiative.

PCTA Minutes Item 2: ATR on the minutes of the 36th Meeting of PCTA

2. The Committee noted with satisfaction the ATR on the minutes of the 36th meeting of PCTA.

PCTA Minutes Item 3: Membership of the PCTA and Workbodies

3. PCTA considered the proposals for its membership and for the membership of various workbodies associated with it and recommended for acceptance by the Council. Consequent upon the acceptance by the Council, an updated consolidated membership of all workbodies, including those of PCTA and its workbodies, is given in Annex 7 (Page 55) of 68th IEC minutes.

PCTA Minutes Item 4: Sub-Committee to investigate the Structure, Scheduling of Meetings and Membership of Working Groups (SC-SSMWG)

4. VP Ding Kunlun, Chair, SC-SSMWG presented the report of the Sub-Committee together with its recommendations and the Committee made the following recommendations to the Council.

- (a) For establishing any WG, an agreement for participation from at least 10 NCs should be a must.
- (b) A WG can have more than one member from a NC with a maximum of four experts from a particular NC, with one of them necessarily being a Young Professional.
- (c) It should be obligatory on the part of NCs to ensure the participation of nominated Experts in the activities of WG and review their participation in WG activities, periodically.
- (d) The present mechanism of Strategy Theme leaders presenting a review on the functioning of WGs under their respective theme every year to PCTA should be followed rigorously and the Theme Leaders should try to attend the meetings of the WGs under their respective themes, discuss with the chairs on the issues and ensure that there are no overlaps.
- (e) SG should take up the drive to increase the membership of the WGs by writing to NCs and at the same time explore the possibility of providing concession in registration fee for ACTIVE members (one or two) of well-functioning WGs.
- (f) WG Chairs to make the WG meetings technically more attractive by taking preparatory steps through virtual meetings of the WG before preparing the agenda.
- (g) The outcomes of the technical workshops should be shared widely by publishing an article in ICID News, etc.

5. The Committee was informed that first two recommendations have already been incorporated in the ICID By-laws.

PCTA Minutes Item 5: Road Map to ICID Vision 2030: Role of Working Groups

6. President Dr. Nairizi emphasized the need for ICID to achieve its Vision 2030 to remain relevant. He pointed out it was the first time that the Commission has clearly laid out common goals that would help its various stakeholders move towards the desired objectives.

7. The Committee deliberated upon the “Road Map to ICID Vision 2030”, which provides new vision, mission, organizational goals, and strategies to put ICID’s Vision into Action. The Committee considered the Action Plan for 2017-21 where the activities identified by the various WGs, RWGs, NCs and Central Office to implement the identified strategies, have been provided. The Committee noted that the chapter on ‘Action Plan: Vision to Action’ which identifies the actions required to be taken up by the ICID network for fulfilling of its vision.

8. The Committee emphasized the pivotal role of the Working Groups in putting the vision into action. The WGs should incorporate the identified activities into their Action Plans and at the same time develop their activities aligned to the strategies. It is important that WGs focus their activities towards measurable outputs which could form part of the products that could be disseminated to the NCs. These products should be useful to the NCs in delivering on the goals that the NCs might be required to achieve as part of their national mandates. The products should also address the needs of multi-disciplinary actions required for a water secure world free of poverty and hunger, the new vision of ICID. The Committee noted (based on the reports considered under subsequent agenda items) that the WGs have started taking guidance from the Action Plan 2017-21.

9. Vice President Waseem Nazir, while lauding the Vision and Action Plan, wondered whether ICID could achieve the desired objectives by continuing to work the way it is presently being organized. Does ICID need to change to accomplish its aspiration for 2030? He pointed out that ICID represents the Global collective wisdom and its technical contributions on irrigation and drainage have been great with a treasure chest of Data and Knowledge. At the same time, he pointed out that ICID is inward focused and deficient in marketing its contributions.

10. VP Nazir pointed out that there is a need to enhance ICID’s attractiveness for participants, practical utilization of knowledge, interaction with non-technical stakeholders, address issues directly. He suggested that efforts must be made to ensure that ICID is an efficient, effective and sustainable organization. In order to achieve its vision and mission, ICID should address policy issues and preserve irrigation legacy for generations to come. It should enhance its engagement with private sector stakeholders.

11. VP Nazir suggested that the organization should challenge itself and promote out-of-the box thinking by curtailing technical papers presentation within one day, addressing one question per Congress while looking at other important issues, and organizing joint meetings of the WGs under each of the four core thematic areas thereby promoting visibility among participants and enhance networking.

12. Considering similar suggestions emanating from other speakers under various other agenda items and the resolve under the chapter 6 of the Road Map, PCTA recommended that SC-E-THEMES may be tasked to work out the structure of its Annual events.

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

13. Representatives of the Heads of Regional Nodes (RNs) of IRPID in Tehran and Beijing updated the Committee on the activities under their respective nodes.

14. The Committee noted that the IRPID program is one of the activities that could provide the NCs an opportunity to improve its profile within the countries as it provides various research stakeholders in AWM research, a window to exchange and showcase ongoing research activities in the irrigation and drainage sector worldwide. It would also help ICID in its objective of serving as a repository of knowledge in irrigation and drainage sector.

15. The Committee noted that there were interests in establishing IRPID nodes in Africa and the Mediterranean regions. Comprehensive proposals in accordance with IRPID Scheme are yet to be received. The NCs of Egypt and Italy may prepare formal proposals to establish RNs in Egypt and Italy for consideration of the AC-IRPID established to administer and guide the Program. PCTA encouraged NCs for the establishment of more RNs elsewhere.

16. PCTA was informed that as per the directions of AC-IRPID, the Central Office has prepared an Irrigation Research (IrriSEARCH) database template in AWM, which needs to be populated by the RNs and its affiliate NCs. It noted that the database can serve as an important tool in fulfilling the objectives of IRPID.

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 for Bio-Fuel and Food (WG-BIO-FUEL)

17. Dr. Fuqiang Tian, Chair of the WG presented the report of the new WG. The WG has identified activities under three strategies for Vision 2030. The WG is planning to organize a webinar during the upcoming year. PCTA members noted that the WG had organized an invited talk on “water-food-energy nexus” by Professor Margarita González Brambila from Metropolitan University of Mexico. The PCTA desired that WGs while inviting such specialists, particularly dealing from multi-disciplinary field, should advertise such lectures in advance so that experts from other WGs should be able to take advantage of such talks.

PCTA Minutes Item 7.2: Working Group on Climate Change and Agricultural Water Management (WG-CLIMATE)

18. Dr. Tsugihiko Watanabe, Chair of the WG presented the report. The WG held a workshop during the Mexico City IEC meeting and will organize another workshop during the 2018 in Canada. The WG proposed one Webinar by Dr. Jaepi Cho of APEC Climate Center, Korea, of which tentative title is “Downscaling and Seamless Climate Service for Adapting against Climate Change”.

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

19. Dr. (Ms.) Charlotte de Fraiture, Chair of the WG presented the report and informed that the WG proposes to develop a ICID technical paper on Ecosystem Services from Irrigation Systems for which first a workshop is proposed to be organized during the 69th IEC.

PCTA Minutes Item 7.4: Working Group on Managing Water Scarcity under Conflicting Demands (WG-MWSCD)

20. VPH Franklin E. Dimick, Acting Chair of the WG presented the report of the new WG and emphasized that the WG is not focusing on Drought, rather its focus is on Water Scarcity, which is of more permanent nature due to competing demands. The WG has prepared a Road Map of future activities. The WG will hold a webinar during the year and is planning a Workshop on *Priorities For Water Use – New (Or Emerging) Demands Competing With Irrigation* to during the 69th IEC meeting. A questionnaire is being developed for the internal use of the WG initially and for others later.

PCTA Minutes Item 7.5: Working Group on Sustainable Development of Tidal Areas (WG-SDTA)

21. The extended tenure of the WG has ended in 2017. Dr. Ruey-Chy Kao, Chair of the WG presented the report and informed that he has submitted the Mandate for the new WG. The WG is preparing a special issue of the ICID Journal and its activities are linked to 5 strategies identified in the Road Map to ICID Vision 2030. It was suggested that the WG should also include impacts on groundwater in coastal areas. PCTA recommends that the WG may be provisionally approved subject to at least 10 NCs supporting its activities by way of sponsoring its experts to participate in its activities.

PCTA Minutes Item 7.6: Synthesis Report by Co-Theme Leaders of ST Basin [VP Dr. Mohamed Abd-El-Moneim Wahba (Egypt) & VP Dr. Charlotte de Fraiture (The Netherlands)]

22. VP Dr. Wahba and VP Dr. (Mrs.) Charlotte de Fraiture presented their synthesis of ST-Basin and urged the WGs to spend more time on technical activities and less on administrative issues, which should be sorted out through virtual meetings prior to the physical meeting. VP Charlotte also urged WGs to make an effort to announce their proposed programs, especially about the special lectures which might be of general interest to experts from other WGs. VP Ian Makin suggested that several WGs meet jointly during the IEC week to attract more high-quality speakers.

PCTA Minutes Item 8: Review of reports of the activities of Workbodies under the Strategy Theme – Knowledge (ST.K)**PCTA Minutes Item 8.1: Working Group on Capacity Development, Training and Education (WG-CDTE)**

23. In the absence of WG Chair and Vice Chair no report was presented. However, as per draft minutes and summary report, the Committee noted that Korea and Morocco will support training program for YPs in 2018 and 2019 respectively. The Committee also appreciated the offer by Mr. Jaepil Cho (Team Leader, Climate Application Team, APEC Climate Center), Korea to support any training program on climate change and adaptation at their center.

PCTA Minutes Item 8.2: Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST)

24. The extended tenure of the WG was up to 2017. Dr. Kamran Emami, Chair of the WG presented the report. VP Honoraire Laszlo G. Hayde reported that more than 10 NCs have expressed their interest in participating in a renewed WG. PCTA recommends that the new WG be conditionally approved pending receiving willingness from at least 10 NCs to participate.

PCTA Minutes Item 8.3: ICID Journal Editorial Board (EB-JOUR)

25. PH Prof. Dr. Bart Schultz, Chair of the EB presented the report of the Journal. He informed that the impact factor of I&D Journal continues to increase. PCTA was informed that two sponsored Special Issues are nearly ready to be published, either in 2017 or early 2018 and six additional Special Issues are in planning process.

26. PCTA noted that 2018 is the last year of the current contract with M/s Wiley and a draft new agreement has been received from Wiley. PCTA recommends that the new contract with Wiley may be renewed for 7 years as it includes a 1% annual increase in the cost of the journal against a 3% annual increase, if the agreement duration is limited to 5 years, with all other conditions remaining similar.

PCTA Minutes Item 8.4: Committee on Public Relations and Publications (C-PR&P)

27. VPH Mr. Larry D. Stephens, Chair of the Committee presented the report. The Committee believes that the mandate of the Committee has been concluded as ICID no longer sells many publications and that the ICID web page is now quite successful. PCTA recommended that the Committee may be closed with immediate effect.

PCTA Minutes Item 8.5: Task Force for Updating and Maintenance of Multilingual Technical Dictionary (TF-MTD)

28. The Chair of the TF, Vice President Dr. Ding Kunlun, presented the report. Secretary General clarified the scope of the TF-MTD by referring to the Concept Note that was presented before the 67th IEC at the time of its approval (Refer Agenda of 67th IEC, Pages 89). It was clarified that the mandate of the TF-MTD was:

- (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

29. The Committee was informed that FAO technical dictionary AGROVAC did not include technical definitions of AWM terms, rather than the general definitions of some of the terms. Therefore, ICID is best placed to undertake further work on updating the MTD duly consulting experts from other international organizations. SG urged the TF to first of all take a decision on the priority chapters that fall within the expert purview of ICID. This will also help in clarifying which of the WGs should be taking active part in the revision process. It was suggested that a web-meeting of the TF be arranged at the earliest.

PCTA Minutes Item 8.6: Task Force on Value Engineering (TF-VE)

30. Dr. Kamran Emami, Chair of the TF reviewed strategies for Vision 2030. He presented a closure report and Scoping Document with the revised mandate for a new Working Group on Value Engineering. PCTA advised CO to circulate the SD to all the NCs to seek their interest. Dr. Emami pointed out that this topic has the potential to attract the Young Professionals. The decision for the establishment of the WG will be taken during the 69th IEC after review of the interest received from the NCs.

PCTA Minutes Item 8.7: Task Force to Guide ICID Inputs to World Water Forum 8 (TF-WWF8)

31. PH Dr. Chandra Madramootoo, Chair of the TF presented the report on Inputs to WWF 8. The ICID suggestions have been sent to the WWC, but no response has been received. The TF will plan on developing a three-hour program on water for food. Additional reports will be offered. Reports from Mexico, Central America and South America will also be offered.

PCTA Minutes Item 8.8: Synthesis report of Co-Theme Leaders of ST Knowledge [VP Dr. Abdelhafid Debbarh (Morocco) & VP Waseem Nazir (Pakistan)]

32. No synthesis report of workbodies under ST-Knowledge was presented.

PCTA Minutes Item 9: Review reports of the activities of Workbodies under the Strategy Theme – On-Farm (ST.OF)**PCTA Minutes Item 9.1: Working Group on Use of Poor Quality Water for Irrigation (WG-PQW)**

33. VPH Dr. Ragab Ragab, presented a Scoping Document for a proposed new WG, to be named Use of *Non-Conventional Water Resources for Irrigation*. PCTA recommends that the Scoping Document be sent to the NCs seeking interest in joining the new WG.

PCTA Minutes Item 9.2: Working Group on Sustainable On-Farm Irrigation System Development (WG-SON-FARM)

34. Dr. A.K. Randev, Chair of the WG presented the report and informed that the WG reviewed its mandate in light of the Road Map. The WG has posted a questionnaire on the ICID website, seeking information on drip and sprinkler irrigation. The WG organized an internal workshop on *Sustainable On-farm Irrigation Systems for Higher Crops' Productivity*. PCTA noted that the 9th International Micro Irrigation Conference will be held during January 2019 at Aurangabad, India and that as per its mandated the WG will be technically guiding the Conference.

PCTA Minutes Item 9.3: Working Group on Water and Crops (WG-CROP)

35. VPH Dr. Ragab Ragab, Chair of the WG presented the report. The WG developed strategies for Vision 2030. The WG plans a seminar on *Improving the Water Use Efficiency within the Water-Energy-Food-Nexus* for the 69th IEC Meeting in Canada.

PCTA Minutes Item 9.4: Synthesis report of Co-Theme Leaders of ST On-Farm [VP Bong Hoon Lee (Korea) & VP Madhav Belbase (Nepal)]

36. VP Bong Hoon Lee made the report for Theme On-Farm.

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 Irrigation, Development and Management (WG-IDM)**

37. Ms. Mary Jean M. Gabriel, Chair of the WG presented the report. The WG reviewed and discussed Strategies for Vision 2030. It was noted that the WG has allocated various activities identified under the Action Plan to its members.

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

38. VPH Dr. Hafied A. Gany, Chair of the WG presented the report. PCTA noted that The International Symposium on *Global review of institutional reform in irrigation sector for sustainable agriculture water management, including WUA*, was successfully conducted on 8 October 2017, with about 150 attendees. The Symposium featured two keynote speakers from the World Bank, presentation of 09 Country Papers and in-depth discussions on three key topics: Legal Framework, Participatory Irrigation Management and Public Private Partnership. PCTA was informed that the Proceedings of the Symposium will be published in soft copy and perhaps in the *ICID Journal*.

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

39. VP Ian Makin, Chair of the WG presented the report and informed that the WG developed strategies for future work as part of the Road Map. The WG continues to develop a definition of the word modernization. The WG is considering to organize a workshop in Bali during the 70th IEC Meeting and WIF3.

PCTA Minutes Item 10.4: Working Group on Sustainable Drainage Management (WG-SDRG)

40. Mr. Bernard Vincent, Chair of the WG presented the report and informed that the WG is compiling international experiences in bio-drainage and bio-saline agricultural. The WG hopes to organize a workshop during 69th IEC in Canada on dry drainage and bioreactors or green infrastructures. He noted that the 13th International Drainage Workshop was held successfully in Ahwaz, Iran during March 2017. PCTA advised CO to send a call for organizing the 14th International Drainage Workshop from 2021 onwards.

PCTA Minutes Item 10.5: Working Group on Water Saving in Irrigated Areas (WG-WATS)

41. Mr. Mehrzad Ehsani, and the chair of the WG presented the report and informed that the WG was fully involved in Congress Question 60.1 and the Chair of WG was the Panel Experts for Mexico, since that topic dealt with was water savings. PCTA noted that the WG is developing a template to collect data on Water Charging Policies from the NCs.

PCTA Minutes Item 10.6: Synthesis Report by Co-Theme Leaders on ST Schemes [VP Dr. Ding Kunlun (China), VP Ian William Makin (UK) & VP Irene Bondarik (Russia)]

42. VP Ian Makin presented the synthesis report on the activities of the ST-Scheme and noted that some topics are being addressed by multiple WGs. So, the WGs should work jointly to avoid duplication of efforts. One suggestion was to combine WG meetings, and to make more use of virtual meetings for WG activities.

PCTA Minutes Item 11: Newly Proposed Workbodies

43. The Committee noted that the process of establishing a new WG addressing issues related to floods WG-IFM by developing a Scoping Document is in process. PCTA recommends that the WG can be approved if at least 10 NCs support its activities by way of sponsoring its experts to participate in the WG. PCTA requested SG to circulate the SD to all the NCs.

PCTA Minutes Item 12: Report on the outcome of 23rd ICID Congress

44. PCTA noted the report on the outcome of the 23rd Congress presented by Ms. Patricia Herrera Ascencio, representative of MXCID are given in **Annex 6, page 53** to the 68th IEC minutes. PCTA noted that during the presentation of the outcomes of the Congress at the Wrap-up Session, the members had objected to the statement "Low Irrigation efficiency not bad" under Q 61 recommendations. However, there was no conclusive discussion on the subject.

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

45. PH Dr. Gao Zhanyi, Chair of the Sub-Committee presented the report of the meeting of the SC-E-THEMES and the Committee recommended that the Theme of WIF4 and the Questions for the 25th Congress should be considered during the upcoming year and finalized by the 69th IEC. The Theme and Topics for 4th World Irrigation Forum in 2022 will also be selected during the 69th IEC Meeting.

46. PCTA endorsed the recommendation of the Sub-Committee that the technical outputs of Congress questions should be improved and monitored continually. Measures should be taken to increase the quality of papers with the focus to answer the designated questions, while encouraging the NCs and Work bodies to organize and recommend authors to write and submit papers.

PCTA Minutes Item 14: Technical Support Program in ICID

47. SG presented a comprehensive Scheme of the Technical Support Program. The Committee was informed that in order to provide support to NCs in fulfilling their national mandates, ICID had initiated various activities for which a Technical Support Unit (TSU) was established (Resolution IEC-3/66, Para 7) at ICID Central Office. Vide resolution IEC-2/67, the NCs were again requested to take full advantage of the establishment of the TSU and a TSU Core Group was established under the chairmanship of President Dr. Saeed Nairizi. The Core Group held its first meeting on 14 June 2017 that took the decisions regarding (i) Nomination of Experts to TSU, (ii) Contribution to Capacity Development Fund and (iii) Honorarium for experts from NCs and (iv) NCs' request for getting support of TSU. Based on the deliberations at the TSU Core Group meeting, various activities under capacity development have been suggested to be combined under a Technical Support Program (TSP). PCTA recommended that the Scheme that describes TSP as presented be approved by the Council.

48. The meeting was adjourned at 18:40 hours, with a vote of thanks to the Chair.



**Minutes of the 28th Meeting of the
AFRICAN REGIONAL WORKING GROUP (AFRWG)**
11 October 2017, 09.00-10.30 hours (Session I)
11 October 2017, 11.00-12.30 hours (Session II)
Mexico City, Mexico

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) VP Dr. Mohamed Wahba, Chair (Egypt); (2) Prof. Dr Sylvester Mpandeli, Vice Chair (South Africa); (3) VPH Adama Sangare – representative from AMID (Mali); (4) Eng. M.S. Bala (Nigeria) represented Engr. Joe Kwanashie; and (5) Er. Harish Varma represented Secretary General Avinash Tyagi.

Permanent Observers: VPH Dr. Gerhard Backeberg – representative from SARIA (South Africa)

Observers: (i) Ashraf El-Sayed (Egypt); (ii) Dr. Bartali Elhoussine (Morocco); (iii) VPH Engr. I.K. Musa (Nigeria); (iv) Dr. A.K. Abdullah (Nigeria); (v) Engr. (Mrs.) Oluniyi Ester Oyeronke (Nigeria); (vi) Sirika Ahmad (Nigeria); (vii) Dr. Elijah A. Aderibigbe (Nigeria); (viii) Engr. Adeyinka A. Adenopo (Nigeria); (ix) Miuael I. Nwabufu (Nigeria); (x) Dr. Phokle Maponga (South Africa); (xi) Dr. Aidan Senzanje (South Africa); (xii) Mr. Ernest Malatsi (South Africa); (xiii) Simoniso Mkhali (South Africa).

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

AFRWG Minutes Item 1: Action taken report by Chair

1. Chair welcomed the members and presented a report on the actions taken on the decisions and proposals of the working group held at its last meeting at Chiang Mai in November 2016.

2. The WG reviewed the membership of the group which includes eight new nominations and accepted their membership to the AFRWG. However, the new nominees were not present in the meeting. Since there is already a member from Egypt, so the group recommended to consider VPH Dr. (Mrs.) Samia El-Guindy (Egypt) as an 'Observer'. Membership status is given in **Annex 7 (page 55)**. AFRWG after discussion selected Eng. Amali Abraham Amali (Nigeria) to act as the Secretary of the WG, subject to receiving nomination from Nigerian NC (NINCID).

AFRWG Minutes Item 2: Road Map to ICID Vision 2030 – Activities in African region

3. The group reviewed and discussed the Road Map to ICID Vision 2030. After deliberations on the action plan of the WG based on ICID Roadmap to Vision 2030 and considering the need to contribute to the ICID Vision 2030 in view of the group's mandate, the group identified the following activities for further action:

- (i) Keeping in view the importance of exchange of knowledge, experiences, technologies and information among NCs, African National Committees are encouraged to have bilateral cooperation (MoU) with other NCs.
- (ii) In order to develop capacity of professionals especially young professionals (YPs) from African region, ICID President and ICID Central Office are requested to give a priority for the capacity development programme of Young Professional from the region. Members also suggested to approach International funding organization for support for capacity development programme in the region.
- (iii) Members requested ICID to organize capacity development programme/training workshop for YPs from African region in conjunction with all future ICID events in Africa in addition to training workshop for YP being organized with ICID annual events.

AFRWG Minutes Item 3: Position paper on Green Revolution in Africa

4. The group discussed the preparation of position paper on "Green Revolution in Africa" and suggested to organize discussion among members to finalize the draft strategy on supporting development of appropriate policies.

After deliberation, it was agreed that Vice Chair Prof. Sylvester Mpandeli and Chair Dr. Wahba will coordinate this process. It was further agreed that Prof. Sylvester Mpandeli and Dr. Wahba would come up with a draft table of contents of the position paper on Green Revolution in Africa which would then be circulated to all National Committees in the region for their comments and providing material/information for preparation of position paper. The final draft paper for Green Revolution in Africa will be presented during the next meeting of the group in Canada in 2018.

AFRWG Minutes Item 4: Progress on implementation of the action program for Africa - Strategy for capacity building in Africa

5. WG Chair provided status on implementation of action program and Strategy for Capacity Building in Africa and presented a draft questionnaire for training needs assessment (TNA) in Africa. After discussion, it was agreed that members will provide their feedback in two days before it is circulated to all members of the AFRWG. The group proposed that the draft of this TNA questionnaire be translated in 4 languages viz. English, French, Portales and Arabic, which are the main languages in the African continent with the support of ICID Central Office and NCs in the region and then uploaded on the website of AFRWG-ICID for access by all African countries. It was suggested to use a tool like Monkey to analyze the results. The group also agreed to update Strategy for Capacity Development every three years based on input from the members.

AFRWG Minutes Item 5: Exchange of information, knowledge and experience

AFRWG Minutes Item 5.1: Dissemination of Working Group's activities

6. The group noted that the website of the working group <http://afrwg.icidonline.org/> was updated with new membership list, agenda, minutes etc. The WG Chair requested all members to share information, knowledge & experience and provide papers, presentations, articles, reports etc. related to scope of the WG to ICID Central Office for uploading on the WG website for wider dissemination. The Chair requested the African National Committees to update the e-mail, mobiles and any other contacts details of the member of AFRWG and the staff of the NCs so as to activate the communication among the group.

AFRWG Minutes Item 5.2: Webinar/ web based seminar

7. WG Chair informed the members about the organization of the webinars by ICID Central Office during last one year and requested all members to actively participate in the webinar and also suggest a few topics based on the mandate of the WG on which webinar can be considered. Keeping in view the importance of webinar as a very good platform of knowledge exchange, the group agreed to have webinars with focus on African region.

AFRWG Minutes Item 6: Updates on Regional Irrigation Associations

8. WG Chair, Dr Backeberg and Prof. Dr Mpandeli provided updates on the activities of the regional irrigation associations. During discussion, it was emphasized that all regional blocks such as Southern Africa Regional Irrigation Association (SARIA) and North African Regional Association for Irrigation and Drainage (NARAID), which is under establishment, be requested to encourage their members to become member of ICID and thus join the AFRWG. WG Chair VP Wahba requested SARIA representative to provide all the available materials related to the establishment of SARIA so that he can initiate actions on the establishment of NARAID. In this regard, the Chair stressed the importance of looking for a source of funding to take actions on this important issue.

AFRWG Minutes Item 7: Updates on activities of member countries

9. Chair and other members present provided brief updates on activities undertaken in their countries. After discussion, members agreed to have virtual meetings through web-ex platform for regular exchange of information among members where presentations can also be made by the members from different regions of the continent especially on the status of irrigation development. It was agreed to organize at least four such presentations during virtual meetings, atleast two virtual meetings are proposed to be organized during the intervening period. The group also decided to develop a training needs assessment document.

10. The group noted about the establishment of the "African Young Professional Forum (AYPF)" within the African continent. Chair Dr. Wahba informed the members that it is proposed to host the first forum meeting of AYPF in Egypt in 2018 which was agreed and supported by all members. The Chair informed that he will discuss the next steps for organizing this important event of AFRWG with the ICID Central Office and provide further updates to the AFRWG members. Chair encouraged all African NCs to establish YPF at local level in their countries and requested them to encourage YPs to join this local YPF as well as to participate in the e-discussion and webinars. Chair also requested members to nominate YPs in different work bodies of the ICID which would be a good start to disseminate

the experience and information to the new generation and to build their capacities for facing the challenges being faced by the African region. It was also agreed that all NCs must support and nominate Young Professional so that they can attend ICID events. WG discussed and suggested that all training initiatives provided by AFRWG in future should be accredited/ certified since this will attract many international experts from across the continent.

AFRWG Minutes Item 8: 5th African Regional Conference

11. The Chair provided efforts made by him on the proposed 5th African Regional Conference. During the meeting, Dr. Bartali Elhoussine (Morocco), Vice President of the Morocco National Committee (ANAFIDE) informed that the Morocco National Committee would like to host the 5th African Regional Conference during 2019. Members appreciated Morocco for hosting 5th African Regional Conference. It was agreed that the Morocco National Committee will submit formal application (FORM A) to ICID Central Office within a month.

AFRWG Minutes Item 9: Any other business

The meeting ended with vote of thanks.



**Preparatory Meeting for the
AMERICAN REGIONAL WORKING GROUP (AMRWG)**

12 October 2017, 09:00-10.30 hours (Session-I)
12 October 2017, 11:00-12.30 hours (Session-II)
Mexico City, Mexico

Presented by the Chairman

Summary of the Proceedings of the Meeting:

1. Vice President Hon. Laurie C. Tollefson (Canada), who graciously agreed to Chair the meeting, welcomed the representatives from Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Mexico and Peru and invited Secretary General Er. Avinash C. Tyagi to present the pretext for the meeting and background of ICID. SG Avinash Tyagi prepared his slide presentation in Spanish and his remarks were also translated in Spanish for better understanding. SG Avinash Tyagi informed that the 'Latin American Working Group' (LARWG) was first established in 1999 with seven countries (Argentina, Brazil, Chile, Colombia, Guyana, Honduras and Mexico) as its members. Several events including the 4th Inter-Regional Conference were organized during the period. The group was renamed as 'American Regional Working Group' (AMRWG) Group in 2003 to attract wider participation. However, it was disbanded in 2012 due to lack of interest in spite of best efforts from VPH Lucio Ubertini (Italy), Mr. Maurice Roos (USA), Dr. Clark Ballard (Australia) and VPH Laurie Tollefson (Canada) and several other National Committees. SG Avinash Tyagi explained the benefits of joining ICID briefly to the participants.

2. It was also generally felt that language is a big issue and needs to be considered if Latin American countries are to actively participate in ICID. It was also explained that the Latin American countries could become a country member, an institutional member or an individual member.

3. To initiate discussion, SG Avinash Tyagi raised questions: (1) How do we find opportunities to work together (2) Did an irrigation network exist in Central and South America. The Latin American representatives informed that such a network didn't exist but they would like to start one. The feeling was that ICID would be useful in Latin America and that Mexico should take lead and work with ICID Central Office on the subject.

4. VPH Tollefson informed that while President Hon. Chandra A. Madramootoo (Canada) was dynamic in establishing the LARWG in early years, he had recently been to Brazil and had talks with Embrapa. He felt that it would be difficult to go through the governments these days and therefore would need to find a way through the private sector.

5. The participants then discussed joining ICID and proposed the following possible steps to be taken: (a) Have MXCID in cooperation with ICID Central Office correspond with all Latin American countries particularly with Ministers of Agriculture / Ministers of Water Resources inviting them to join ICID?; and (b) Have a '*Regional Special Session*' for Latin American countries at Saskatoon, Canada where the participating countries could interact and discuss more about working together and explore ways to join ICID? (c) Consider establishing a Spanish speaking node in Mexico on the same line as Int. Research Program for Irrigation and Drainage (IRPID) in China and Iran for transfer technology.

6. It was proposed to develop the theme for the '*Regional Special Session*' around climate change, water management and competing demands for water, in cooperation with Mexican National Committee (MXCID). MXCID can then send special invitations to Latin American countries for attending the '*Regional Special Session*' at Saskatoon.

7. VPH Tollefson further informed that prior to the AMRWG meeting, Latin American Meeting on Irrigation and Drainage was held on 11 October 2017 at Mexico. Ing. Marco Antonio Parra Cota (CONAGUA, Mexico) and Dr. Nahún H. García Villanueva (IMTA, Mexico) Chaired and Co-chaired the meeting, respectively, whereas ICID Young Professional Dr. Carlos Sánchez (Ecuador) acted as a Rapporteur where a group of experts from 7 Latin countries participated.

8. The Latin American meeting was held in two sessions. In Session I, five presentations were made as below:

- (a) Background and use of water in agriculture.
- (b) Organization, administration and management of water for irrigation.
- (c) Evolution and development of irrigation and drainage.

- (d) Problems, challenges and opportunities for the hydro-agricultural sector.
- (e) Possible lines and forms of cooperation with Latin American countries.

In Session II, a workshop was held focusing on following two issues:

- (a) Key challenges in the Latin American and Caribbean region and options for their solution.
- (b) Possible forms of cooperation between the countries of Latin America and the Caribbean.

9. Latin American Meeting focused on review of current and future state of water use in agriculture; the form of organization, administration and management of the water resources used for food production; development of irrigation and drainage; as well as the issues, challenges, needs and possible forms of cooperation and collaboration within the hydro-agriculture sector between Latin American and Caribbean countries. The consensus was achieved on strategic actions that need to be promoted in order to achieve water security and the sustainable development of the region's hydro-agriculture sector is given in **Annex**.

10. It was generally noted that the problems related to water management in agriculture in Latin America are very similar, varying in size and degree, and therefore it was proposed to establish a Task Team (TT) to look into the issues emerging from the 'Declaration', including the formation of Regional Association for ICID membership.



Annex [Appendix V, Para 9]

**LATIN AMERICAN MEETING ON IRRIGATION AND DRAINAGE
11 and 13 October 2017, Mexico City, Mexico**

Summary of the Proceedings of the Meeting (draft)

The Latin American Meeting on Irrigation and Drainage was held on 11 and 13 October 2017 during ICID's 23rd International Congress Irrigation and Drainage organized by the International Commission on Irrigation and Drainage (ICID) in cooperation with the Mexican National Committee of ICID (MXCID), sponsored by the Commission Nacional del Agua (CONAGUA) and technical support from the Mexican Institute of Water Technology (IMTA) during 8-14 October 2017 at Mexico City, Mexico where a group of experts from 7 countries (Argentina, Bolivia, Chile, Costa Rica, Mexico, Peru and Dominican Republic) participated.

Through this meeting, a review and analysis exercise was carried out on the current and future state of water use in agriculture; the form of organization, administration and management of the water resource used for food production; development of irrigation and drainage; as well as on the issues, challenges, needs and possible forms of cooperation and collaboration within the hydro-agriculture sector between Latin American and Caribbean countries.

The proceedings of the meeting were held in two Sessions. Session I consisted of five presentations as listed below:

- (1) Background and use of water in agriculture.
- (2) Organization, administration and management of water for irrigation.
- (3) Evolution and development of irrigation and drainage.
- (4) Problems, challenges and opportunities for the hydro-agricultural sector.
- (5) Possible lines and forms of cooperation with Latin American countries.

In Session II, a workshop was held around the following two topics:

- (1) Key challenges in the Latin American and Caribbean region, and options for their solution.
- (2) Possible forms of cooperation between the countries of Latin America and the Caribbean.

In order to carry out the analysis in this workshop, some of the international commitments already made in the region were considered. In particular, it was considered that significant reduction of hunger and malnutrition at the international level was achieved by 2014-2015 as part of the Millennium Development Goals (MDG) target 1C thereby reducing undernourishment by half. And looking to the future, the international community ratified Agenda 2030 and the Sustainable Development Goals (SDGs) with the commitment to permanently eradicate hunger and malnutrition by 2030.

In view of these commitments and its linkages with the hydro-agriculture sector in the region, the following five Sustainable Development Goals/objectives for 2030 were developed:

- (a) Goal 1: End poverty in all its forms around the world
- (b) Goal 2: End hunger, achieve food security and improve nutrition, and promote sustainable agriculture
- (c) Goal 6: Ensure water availability and sustainable management and sanitation for all
- (d) Objective 12: Ensure sustainable consumption and production patterns
- (e) Objective 13: Take action to combat climate change and its effects

In this respect, it was stressed to realize the importance of these goals and objectives and commit ourselves to eradicate hunger in the Communities of Latin American and Caribbean States by 2025, five years earlier than agreed in the Agenda 2030. It was recognized that it will be challenging to provide physical and economic access to sufficient, safe and nutritious food at all times to satisfy the dietary needs and preferences to all people at the individual, household, national and global level.

At the same time, it was also recognized that in order to achieve sustainability within the hydro-agriculture sector, it will be essential to provide simultaneous access to food and water security by establishing at least the following three basic necessities:

- (a) Adequate water availability of water (in quantity and quality) for food production without entering into conflicts with water for domestic use and water for ecosystems.
- (b) Develop capacities to access and harness available water sustainably and manage the balance between sectors.
- (c) Establish a mechanism to manage risks associated with various uses of water and its impact on the economy of the hydro-agricultural sector.

Thus, when working on the description of the mechanisms, that participants believe to be necessary for simultaneously achieving the food and water security, the following identified set of shared challenges and constraints needs to be considered:

- (a) Demographic growth
- (b) Socio-economic development
- (c) Economic globalization
- (d) Public policies
- (e) Externalities and opportunities between productive sectors
- (f) Increase in profits - Integrated management of water, soil and energy resources
- (g) Climate Change
- (h) Extreme Events
- (i) Control of negative impacts
- (j) Development of irrigated agriculture
- (k) Rural and urban development in harmony

As a result of discussions held, a consensus was reached and four physical spaces or thematic fields, within the productive areas, were identified where it is necessary to act:

- (1) Collection areas and sources of supply,
- (2) Networks and systems of conduction, distribution and delivery,
- (3) Production systems - irrigated lands, and
- (4) Drainage systems and pollution control.

In order to move forward, the following actions have been identified and prioritized:

- (a) Thematic area - Rational specific actions
- (b) Reduce the area under irrigation where over-exploitation of surface and ground water exists, controlling the over extractions and improving the conveyance, distribution and irrigation efficiencies.
- (c) Extraction from overexploited aquifers must be controlled without affecting, as far as possible, the users.
- (d) Supervise extractions through direct and indirect volumetric measurements and encourage to respect for rules for extractions (legal control).
- (e) Improve the efficiency of pumping equipment and reduce energy costs.
- (f) Improve conduction, distribution and application efficiencies to reduce water losses in irrigated areas.
- (g) Establish energy tariffs with bonds linked to productivity ranges.
- (h) Respect and update the optimal extraction policies in dams, prioritizing their management in droughts and scarcity conditions.
- (i) Develop policies and production schemes to control the extraction in 15 overexploited aquifers.
- (j) Increase in areas of irrigation and drainage where guaranteed water supply is available.
- (k) Develop and innovate systems of irrigation and drainage according to the physical and climatic conditions of the irrigation zones of the country.
- (l) Conduct prefeasibility and feasibility studies to transform agricultural areas to irrigated areas.
- (m) Introduce new technologies to improve gravity irrigation, such as intermittent irrigation, as well as controlled drainage.

- (n) Promote controlled drainage in wetlands to significantly increase the production.
- (o) Analyze the annual recharge of aquifers, recharge aquifers where recharge capacity is high, provide pressurized irrigation in humid areas with low irrigation demand and develop these productive systems for high value crops.

Networks and systems of conduction, distribution and delivery: Describe the existing infrastructure, determine its status and estimate performance and investment requirements that translate into tangible benefits, so that the cost benefit ratio is greater than unity. Most of the districts and irrigation units have infrastructure with more than 50 years of history. Large-scale interventions are needed to extend its useful life and increase its capacity for increased hydro-agricultural productivity.

Volumetrically measuring water at the inter-land and parcel level: Process and transmit data in real time to centers for monitoring and control of allotments and concessions. To evaluate the water productivity, it is essential to measure the volumes that are extracted from the sources of supply, taken to the irrigated areas and distributed and delivered at the inter-land and parcel level.

Production systems and parcel irrigation: Promote agriculture like business - supporting and integrating producers in production systems of more than 1,000 ha. The international experience shows that collective irrigation and its integrated management in areas of more than 1,000 ha allows to optimize inputs, machinery and equipment associated with agricultural production in addition to reducing labor costs, among other benefits that result in greater agricultural profitability. The following issues may be considered when promoting agriculture like a business:

- (1) Promote the development of collective networks on demand.
- (2) Develop irrigation systems that optimize production per unit area, both in quantity and quality, to compete in the international market.
- (3) Promote agriculture like business, focusing on greater profitability.
- (4) Develop pressurized irrigation systems especially in areas with recurrent droughts and reduction in water availability due to climate change. The drip irrigation may be practiced allowing irrigation efficiencies to reach up to 85% and consequently reducing the pressure on the water resources in general and increasing the water productivity.
- (5) Promote irrigation technologies in areas with water shortages and recurrent droughts as a viable option for sustainable agriculture.
- (6) Develop innovative equipment, materials and control systems to reduce costs and simplify operations including fertigation.
- (7) Promote consumption of the agricultural produce in the same area - Self-consumption of agriculture produce with crop diversification, for a balanced diet, is fundamental as human rights to food thereby contributing to food security.
- (8) Develop modular family gardens with pressurized irrigation systems equipped with alternative source of energy (solar) and rainwater harvesting.
- (9) Transforming storm zones into irrigation zones where possible - transformation from storm to irrigation lands results in 2 to 3 times increase in production.
- (10) Make designs to maximize the advantages of the storm - complemented with irrigation may result in double cropping resulting in higher cropping intensity and therefore productivity.

Systems of drainage and control of the pollution: The drainage is practiced to remove excess water and promote the hydro-agricultural development in the humid and sub-humid zones. There are millions of hectares of land in humid and sub-humid zones that can be brought under agricultural production with controlled drainage thereby significantly increasing the productivity for enhanced food security. The following issues may be considered when promoting agriculture in humid and sub-humid zones:

- (1) Improve and increase agricultural production in humid and sub-humid areas by introducing controlled land drainage. In case of coastal zones, desalination has the greatest potential for the development of irrigation zones in the coastal belts. There are aquifers with marine intrusion whose waters could be used for agricultural production.
- (2) Develop filtering techniques to optimize the use of the soil materials in combination with artificial processes (meshes, pressure etc.).

- (3) Investments in the humid and sub-humid zones should be determined based on guaranteed returns. To successfully reuse both drained agricultural water and treated waste in the region, no less than 500,000 ha are required. This experience opens up great expectations for the development of irrigated agricultural areas supplied with treated wastewater but at the same time poses environmental, social and economic problems and challenges.
- (4) Develop technology and normative criteria to promote the use of treated wastewater for agricultural production.
- (5) Promote the integrated design to use the treated wastewater and the irrigation water in a joint operation.

Having examined the various common challenges and problems and having identified public policies and points of convergence, consensus was achieved on strategic actions that need to be promoted in order to achieve water security and the sustainable development of the region's hydro-agriculture sector :

A. "Options for the solutions to problems, challenges and opportunities for the sustainable development of the hydro-agricultural sector in Latin America and the Caribbean".

- (1) Sources of supply
 - (a) Ensure the availability of the water resource
 - (b) Control the deterioration of water quality
 - (c) Conserve water bodies with compatible quality for agricultural production
 - (d) Controlling overexploitation of aquifers; and
 - (e) Regulate the interaction between surface and groundwater
- (2) Regulate the agricultural areas for irrigation depending on the water availability
 - (a) Evaluate the impact of technological developments and changes of use on water resources
 - (b) To control the processes of salinization associated with the development of irrigation
 - (c) To promote the efficient use of water and energy in productive processes
 - (d) Zoning of agricultural production in micro-watersheds; and
 - (e) Define the dimension and establish sustainable productive hydrographic areas
- (3) Management and conservation of watersheds
 - (a) Develop effective instruments of territorial organization and watershed management
 - (b) Control erosion levels in degraded watersheds and clogging of reservoirs
- (4) Risks and effects associated with extreme events and climate change
 - (a) Reduce the impact of floods, droughts and climate change
 - (b) Addressing the effects of climate change and agro-climatological variability on production
 - (c) Regulate change in runoff and drainage conditions in watersheds
 - (d) Incorporate into decision-making the uncertainty associated with extreme events and climate change.
- (5) Innovation, science and technology - Promote the development of products derived from innovation, science and technology for the sustainable development of the hydro-agriculture sector in the region.
- (6) Promote the generation of a shared vision in the legislation associated to the hydro-agriculture sector.

B "Possible forms of cooperation for water security and sustainable development in the hydro-agricultural sector among Latin American and Caribbean countries".

- (a) Adopt sustainable development, prioritizing food and water security, as a platform for action of the hydro-agriculture sector in the region.

- (b) To carry out an integration of all the international agreements related to the hydro-agricultural sector signed between the different countries of the region, including those linked with international institutions, to establish a monitoring mechanism that allows for their evaluation and where appropriate, bring in more stake holders.
- (c) To promote the formation of a Regional Association for the Sustainable Development of the Hydro-agricultural Sector in Latin America and the Caribbean. This association should include representatives from the public and private sectors of each country, as well as experts and researchers in the field.
- (d) Make a proposal to form a group of experts and decision makers, in cooperation with ICID, to develop a strategic plan for the Sustainable Development of the Hydro-agriculture Sector in Latin America and the Caribbean.
- (e) To request the group of experts to compile and integrate common information and statistics from of the hydro-agricultural sectors in the Latin America and the Caribbean on a common platform.
- (f) The group of experts from the Latin American and Caribbean Region can establish a Regional Association and join ICID as a single Regional member representing the region.
- (g) Member countries to develop a 'Vision Document – 2030' on the problems, challenges and opportunities in Latin American and the Caribbean region in consultation with ICID.
- (h) Analyze proposals to establish regional cooperation mechanisms to prevent and reduce the impact of climate change and extreme events in the hydro-agriculture sector of the region.

Taking into account the above, the panelists listed below appeal to the countries of the region to promote the establishment of joint action and communication mechanisms for food and water security and the sustainable development of the hydro-agriculture sector of Latin America and the Caribbean.

The following discussants were present on 13th October 2017 at Mexico City:

ING SERGIO LEANDRO MARINELLI
Superintendence of the General Department of Irrigation
Government of Mendoza, Argentina

ING. LUIS GROVER MARKA SARABIA
Adviser to the Minister of Water Resources and Irrigation
Ministry of Environment and Water, Plurinational State of Bolivia

DR. SAMUEL ORTEGA FARÍAS
Center for Research and Transfer in Irrigation and Agroclimatology (CITRA)
University of Talca, Chile

DRA. KAREN TATIANA MONTIEL LÓPEZ
Coordinator of the Water and Soil Component
Insignia Project for Resilience and Integral Management of Environmental Risks
Inter-American Institute for Cooperation on Agriculture, Costa Rica

LIC. IUS FELIPE ALOCER ESPINOSA
Secretario General
Comité Nacional Mexicano del ICID (MXCID)

DR. NAHÚN HAMED GARCÍA VILLANUEVA
Coordinator of Irrigation and Drainage of the Mexican Institute of Water Technology

DR. JESUS ABEL MEJÍA MARCACUZCO
Coordinator of the Postgraduate Program in Water Resources
National University Agraria La Molina, Peru

ING. OLGO FERNÁNDEZ RODRÍGUEZ
Executive Director
National Institute of Hydraulic Resources (INDRHI),
Dominican Republic



**Minutes of the 24th Meeting of the
ASIAN REGIONAL WORKING GROUP (ASRWG)**

11 October 2017, 09.00-10.30 hours (Session I)

11 October 2017, 11.00-12.30 hours (Session II)

Mexico City, Mexico

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) VPH Karim Shiati, Chairman (Iran); (2) Prof. Wang Aiguo (China); (3) Dr. Mochammad Amron (Indonesia); (4) Mr. Naoki Hayashida (Japan); (5) Prof. (Ms.) Kyung Sook Choi (Republic of Korea); (6) Ms. Jeong Min, Ryu – Young Professional (Republic of Korea); (7) Mukhlis Zainol Abidin (Malaysia) represented Ir. Syed Abdul Hamid bin Syed Shuib; (8) Dr. (Ms) Mu Than (Myanmar); (9) VP Madhav Belbase (Nepal); (10) Eng. Waseem Nazir (Pakistan) represented Mr. Ahmed Kamal; (11) Dr. Gwo-Hsing Yu (Chinese Taipei).

Observers: (1) Eng. Naseer Ahmad Fayez (Afghanistan); (2) Dr. Sanjay Belsare (India); (3) Mr. Naresh Modi (India); (4) VPH Hafied Gany (Indonesia); (5) VPH Shinsuke Ota (Japan); (6) Dr. Takao Masumoto (Japan); (7) Dr. Tsugihiko Watanabe (Japan); (8) Mr. Yasunori Saiki (Japan); (9) Dr. Masayoshi Satoh (Japan); (10) Mr. Takeshi Kikutsuiji (Japan); (11) Mr. Mamoru Watanabe (Japan); (12) VP Bong Hoon Lee (Republic of Korea); (13) Dr. Jaepil Cho (Republic of Korea); (14) Mr. Chansung Oh (Republic of Korea); (15) Mr. Geumjun Lee (Republic of Korea); (16) Mr. Jungseok Jang (Republic of Korea); (17) Mr. Kyaw Myint Hlaing (Myanmar); (18) Mr. Aung Kyi (Myanmar); (19) Mr. Susheel Acharya (Nepal); (20) Mr. Saroj Pandit (Nepal); (21) Shishir Koirala (Nepal); (22) Er. Madhukar Prasad Rajbhandari (Nepal); (23) Er. Subodh Sharma (Nepal); (24) Ramanand Prasad Yadav (Nepal); (25) Mirza Junaid Ahmad (Pakistan); (26) Dr. Mona Liza Delos Reyes (Philippines); (27) Dr. Jeongryeal Jang (South Africa); (28) Ms. Seo Eun Hee (South Africa); (29) Ms. Kim Hye Yun (South Africa); (30) Mr. Tran Chi Trung (Vietnam); (31) Su Mei-Yuan (Chinese Taipei); (32) Mr. Kuang-Ming Chuang (Chinese Taipei); (33) Dr. Ray Shyan Wu (Chinese Taipei); (34) Dr. Yu-Chuan Chang (Chinese Taipei).

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

ASRWG Minutes Item 1: Action taken report by Chair

1. Chair welcomed the members and presented a report on the actions taken on the decisions and proposals of the working group held at its last meeting at Chiang Mai in November 2016.
2. The group reviewed the nominations of Dr. (Ms.) Mu Than (Myanmar), Mr. Bashu Dev Lohanee (Nepal), Ms Jeong Min Ryu (Republic of Korea) as Young Professional, Eng. W.B. Palugaswewa (Sri Lanka), and Mr. Ahmad Kamal (Pakistan) for the membership of the group. The nominees attended and introduced themselves during the meeting. Since the nominees were either present or represented, their nominations were accepted as Member while Eng. Palugaswewa was neither present nor represented and therefore accepted as a Provisional Member. The group also reviewed the fresh nomination of Dr. Dao Trong Tu (Vietnam) and accepted him as Provisional Member (*subject to Vietnam becoming a member of ICID from 2018*). Mr. Tran Chi Trung (Vietnam) earlier introduced Dr. Dao to the WG. Chair thanked VP Bong Hoon Lee (Korea) for his great efforts towards reviving the membership of Vietnam National Commission (VNCID).
3. Since Dr. Kota Tirupataiah (India) neither participated nor contributed to the activities of WG, the group decided to discontinue his membership as per ICID By-law 3.5 and request the Indian National Committee for a new nomination. Similarly, the group suggested that ICID Central Office may follow-up with the National Committees of Kazakhstan, Tajikistan, Philippine, Bangladesh and Saudi Arabia for a nomination on the WG.

ASRWG Minutes Item 2: Road Map to ICID Vision 2030 – Activities in Asian region

4. During the meeting, Chair reviewed the activities of the WG listed in the action plan of the WG towards Road Map to ICID Vision 2030 and discussed briefly with the members. The group decided to contribute to 3 goals (out of 6 organizational goals of ICID Vision 2030) for the year 2017 and 2018 as follows:
5. For 2017 – (a) Exchange visit and training between TUCID and IRNCID; (b) MoU between IRNCID and KCID; (c) Special issue of AARDO Journal; and (d) Collaboration between PAWEES and ASRWG (WT).

6. For 2018 – (a) 8th Asian Regional Conference in May 2018 in Nepal; (b) Contribution of ASRWG (WT) to WWF8; and (c) Signing bi-lateral Cooperation between National Committees of China and Pakistan.

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

7. During the Mexico meeting, members from CTCID, INACID and MANCID appraised the WG about their joint regional collaboration which was announced last year in Chiang Mai. It was also informed that Memorandum of Understanding (MoU) had already been signed between CTCID and INACID for mutual cooperation. Further, it was also announced that a MoU will be signed between NENCID and KCID for mutual cooperation in Katmandu in May 2018.

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)

8. Chair informed the group that the 14th International Symposium and Steering Committee meeting will be organized by the INWPEF-Philippine in November 2017 in Philippines. Chair encouraged all WG members to participate and contribute to the Symposium.

9. A joint International meeting between PAWEES and INWEPF titled “Promoting Sustainable Paddy Farming to achieve the SDGs” will be held in Nara City in Japan in November 2018. Chair requested WG members to contribute to such important event. Mr. Hayashida, member of Organizing Committee of this Joint International meeting provided a brief report about this event.

ASRWG Minutes Item 5: 8th Asian Regional Conference, 2-4 May 2018, Nepal

10. The WG noted that the 8th Asian Regional Conference (ARC) on the theme “Irrigation in Support of an Evergreen Revolution” will be held on 2-4 May 2018 at Kathmandu, Nepal. Mr. Bashu Dev Lohanee representative from Nepal National Committee (NENCID) provided the status of organization of the 8th ARC. The Chair encouraged all members to submit more papers and actively participate on this important event. For information about 8th ARC including logistic are available at <http://nencid.org.np/8th-annual-regional-conference/>.

ASRWG Minutes Item 6: Publication of the Working Group

ASRWG Minutes Item 6.1: Publication of joint side event of ASRWG (WT) and AARDO

11. Chair informed the members that a special issue of AARDO Journal was published in July 2017 based on papers presented during the Joint Side Event of ASRWG-WT and AARDO. The soft and hard copies of the Journal have already been distributed by ICID Central Office.

ASRWG Minutes Item 6.2: Technical report of ASRWG-WT “Contribution of Agricultural Water to the Rural Development in Asia”

12. During the Mexico meeting, Prof (Ms.) K.S. Choi, Chair of ASRWG-WT provided the status of preparation of final report of ASRWG-WT titled “*Contribution of Agricultural Water to the Rural Development in Asia*”. The group proposed that the final report will be published in 2017 and made available for distribution during WWF8.

ASRWG Minutes Item 7: Capacity development programme for Young Professionals from Asian region in 2017, China

13. The group noted that the proposed training programme of the Asian Young Professionals (YPs) on the theme “Performance Assessment of Irrigation Systems” will be held in China in November / December 2017. It was proposed that 10 YPs will be provided full scholarship for attending the above programme. Prof. Wang Aiguo, Chairman of Chinese National Committee (CNCID) informed the WG that the number of scholarship may be raised to 20. The WG members appreciated this kind gesture of CNCID.

ASRWG Minutes Item 8: Any Other Business

The meeting ended with thanks to the Chair.



**Minutes of the 28th Meeting of the
COMMITTEE ON CONGRESSES/CONFERENCES (C-CONGR)**

11 October 2017, 13:30-15:00 hours (Session-I)
11 October 2017, 15:30-17:00 hours (Session-II)
Mexico City, Mexico

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 on 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) Mr. Luis Felipe Alcocer (Mexico, 2016), Chairman; (2) VPH Laurie C. Tollefson, CANCID representative; (3) Mr. Bashu Dev Lohanee, NENCID representative; (4) Dr. Sanjay Belsare, INCSW representative; (5) Mr. Saiful Mahdi INACID representative; (6) Mr. Bryan Ward, IACID representatives; and (7) Dr. Vijay K. Labhsetwar, ICID Central Office, representing Secretary General.

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

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

1. Dr. Luis Felipe Alcocer (Mexico), Chairman of C-CONGR presented a report on actions taken on the decisions made since the last meeting of the Committee at Chiang Mai (2016), Thailand.

C-CONGR Minutes Item 2: Overview of the 23rd ICID Congress & 68th Meeting of IEC at Mexico City (8-14 October 2017)

2. The Chairman Dr. Luis Felipe Alcocer gave the floor to Mr. Sean Cazares (Mexico), Head of International Cooperation of the National Water Commission to present an overview of the 23rd ICID Congress and 68th IEC meetings at Mexico City. The main theme of the Congress was '*Modernizing Irrigation and Drainage for a new Green Revolution*'.

3. The mega event was hosted by the Mexican Government through the National Water Commission (CONAGUA) and the Mexican National Committee on Irrigation and Drainage (MXCID) and was attended by 787 delegates, out of which 333 were foreign delegates from 47 countries. More than 276 abstracts were received for the Congress, of which 155 full length papers were accepted and published in the Abstract Volume with USB. In all, 48 papers and 66 posters were presented and discussed under two Congress Questions i.e. Q.60: Water Productivity: Revisiting the concepts in light of water, energy and food nexus; and Q.61: State of knowledge of irrigation techniques and practicalities within given socio-economic settings, during the Congress.

4. To further enrich the proceedings of the Congress, the following four sessions were also held: (a) An International Workshop aimed to facilitate activities of mutual interest between the International Geosynthetics Society (IGS) and the International Commission on Irrigation and Drainage (ICID) was held on the theme '*Applications of Geosynthetics to irrigation, Drainage and Agriculture*' on 8 October 2017 at Mexico. Several topics such as applications of geomembranes for irrigation canals, reservoirs, flood management, water containment, water conveyance, erosion control, and irrigation drainage were discussed. (b) An International Symposium on the theme '*Global Review of Institutional Reform in Irrigation Sector for Sustainable Agriculture Water Management, including WUA*' was organized by ICID Working Group on Institutional and Organizational Aspects (WG-IOA) on 8 October 2017 at Mexico under the chairmanship of VPH Dr. Hafied A. Gany (Indonesia). Nine country papers from the NCs, two keynote addresses were also delivered by experts from the World Bank. (c) FAO took lead in organizing another International Seminar on the theme '*Water Use in Food Value Chains – A Challenge for a New Green Revolution?*' under the Chairmanship of Dr. Oclay Unver (FAO). (d) A Special Session on the theme '*Irrigation Techniques for Reuse of Wastewater in Agriculture and its impact on Health and Environment*' was held on 10 October 2017 under the Chairmanship of Dr. Jamie Collado (Mexico).

5. Mr. Sean Cazares further presented the structure of the congress, starting with the MXCID Board of Directors, The International Technical Advisory Committee (ITAC) and the International Scientific Committee (ISC). He also informed that H.E. Enrique Pena Nieto, the President of Mexico, inaugurated the 23rd ICID Congress and 68th IEC Meeting on 9 October 2017 in Mexico City, Mexico. ICID President Dr. Nairizi presented the Heritage Irrigation Structure (HIS) Citation Plaques (2017) for Mexican Projects “LA BOQUILLA DAM” and “LA CHINAMPA” to H.E. Enrique Pena Nieto, the President of Mexico during the Opening Ceremony.

6. The plenary session of the Congress was welcomed by President of MXCID Er. Marco Antonio Parra Cota from Mexican National Water Commission (MWC). He highlighted the importance of ICID, as an organization for dissemination of knowledge, technology and current policies in the field of irrigation and drainage.

7. Two half-day Young professionals (YPs) training workshops, namely (i) “Value Engineering: An effective and efficient methodology for Enhancing irrigation, drainage and flood management Projects” by Dr. Kamran Emami (Iran) and (ii) “Irrigation Water Management to Adapt to Climate Change” by Dr. Kaluvai Yella Reddy (India) were organized on 13 October 2017. Twenty Young Professionals (YPs) from 15 countries participated.

8. Besides above, two technical tours were also organized by MXCID related to the emblematic agricultural projects i.e. (a) Chinampas in Xochimilco; and (b) Irrigation District 023 San Juan del rio, Queretaro on 12 October and 14-15 October 2017, respectively, for the participants.

9. At last, the Chairman made a recommendation to the committee regarding liberally issuing the invitation letters as the most effective way to secure the attendance to the events. He also recognized the challenges faced during the registration process, the website and general logistics. He also emphasized on good communication and teamwork for efficient operation and organization of an event.

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

C-CONGR Minutes Item 3.1: 8th Asian Regional Conference, 2-4 May 2018, Kathmandu, Nepal

10. Mr. Bashu Dev Lohanee, NENCID representative informed the members about the planning of 8th Asian Regional Conference (ARC) which will be organized by the Government of Nepal through NENCID during 2-4 May 2018 at Kathmandu, Nepal. The theme of the 8th ARC is “*Irrigation in Support of an Evergreen Revolution*”.

11. The NENCID also presented a video showing cultural places, the capacity of their irrigational systems and briefly described the conference sub themes, important dates for paper submission, and the registration fee structure for the conference. Please access the conference website at <http://nencid.org.np/8th-annual-regional-conference> for current updates.

C-CONGR Minutes Item 3.2: 69th IEC Meeting and International Conference, 12-17 August 2018 at Saskatoon, Canada

12. Mr. Warren Halgason, the representative from the Canadian Committee for Irrigation and Drainage (CANCID) presented the planning of the International Conference and 69th IEC meeting to be held from 12-17 at Saskatoon, Canada. The main theme will be ‘*Innovative and Sustainable Agri-Water Management: Adapting to a variable and changing climate*’.

13. Regarding the event, he described the conference sub themes and presented a Program at-a-Glance that included conference technical tours and cultural attractions. He mentioned that the target attendance expected is around 500 delegates.

14. He further gave details on the Saskatoon’s Arts & Convention Centre; the venue of the 68TH IEC Meeting which is located downtown, close to many hotels, attractions and restaurants. Also, he mentioned the Technical Tours which will show the progress in irrigation and their multipurpose water reservoirs and river basins. Please access the conference website at <http://www.icid2018.org> for current updates.

C-CONGR Minutes Item 3.3: 9th International Micro Irrigation Conference, January 2019, Aurangabad, India

15. Dr. Sanjay Belsare, representative from Indian National on Surface Water (INCSW), presented the planning for the 9th International Micro Irrigation Conference to be held at Aurangabad, India in January 2019. The main theme will be “*Micro Irrigation in Modern Agriculture*”.

16. Dr. Belsare further presented the program-at-glance with the conference sub themes, exhibition, cultural and study tours, and accompanying person activities along with fee structure. He pointed out that the registration for the event will open in early 2018.

C-CONGR Minutes Item 3.4: 70th IEC Meeting and 3rd World Irrigation Forum (WIF3), in October 2019, Bali, Indonesia

17. Mr. Saiful Mahdi, the representative of Indonesian National Committee of ICID (INACID) presented the preparations made for the 70th International Executive Council (IEC) Meeting and 3rd World Irrigation Forum (WIF3) to be held from 01-07 September 2019 at Bali, Indonesia with the theme "*Development of water, food and nutrition security in a competitive environment*". Bali International Convention Center (BICC) will be the venue for the meetings which is located at Nusa Dua.

18. Mr Mahdi further described the conference sub themes and presented a program-at-glance, accommodation, technical tours, pre/post conference tours and fee structure. Please access the conference website at <http://www.icid2019.org> for current updates.

C-CONGR Minutes Item 3.5: 71st IEC Meeting and 24th ICID Congress, 22-28 September 2020, Sydney, Australia

19. Mr. Bryan Wards, representative from the Australian National Committee ICID (IACID), presented the preparations made for the 71st International Executive Council (IEC) Meeting and 24th International Congress on Irrigation and Drainage to be held from 22-28 September 2020 at Sydney, Australia.

20. The main theme of the Congress is "*Innovation and research in agricultural water management to achieve sustainable development goals*". The event will be run in conjunction with the Biennial Irrigation Australia Conference and Exhibition at the International Convention Centre in Darling Harbour, Sydney, Australia. Please access the conference website at <http://www.irrigationaustralia.com.au/eventsandnews/icid-24th-international-congress> for current updates.

C-CONGR Minutes Item 4: Any other business Letter of Agreement (LoA) for hosting Congresses / WIFs

21. Dr. Vijay K. Labhsetwar explained the purpose of the Letter of Agreement (LoA). A Task Team (TT) is likely to be formed to look into the details of the 'LoA' before its circulation amongst the concerned parties for further improvement and firming up the same.

New Chairman

22. The meeting ended with congratulations to Mr. Bryan Wards (Australia) for being the new Chairman of the Committee on Congresses/Conferences (C-CONGR) from 2018 to 2020.



**Minutes of the 23rd Meeting of the
EUROPEAN REGIONAL WORKING GROUP (ERWG)**

11 October 2017, 09:00-10.30 hours (Session-I)

11 October 2017, 11:00-12.30 hours (Session-II)

Mexico City, Mexico

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) Vice President 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 Dr. Dominique Rollin; (5) VPH Dr. Laszlo Hayde (Hungary); (6) Dr. Marco Arcieri (Italy); (7) Dr. (Mrs.) Irene G. Bondarik (Russia); (8) Vice President Prof. Charlotte de Fraiture (The Netherlands); and (9) Dr. Vijay K. Labhsetwar represented Er. Avinash C. Tyagi, Secretary General.

Observers: (i) Mr. Hannes Puu (Estonia); (ii) Prof. Dr.-Ing. Klaus Rottcher (Germany); (iii) Dr. Givi Gavardashvili (Georgia); (iv) Dr. Anna Tedeschi (Italy); (v) Ir. Yuzi Mazhaisku (Russia); (vi) PH Bart Schultz (The Netherlands); (vii) Dr. Maurice Roos (USA); and (viii) PH Peter S. Lee (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 on the actions taken on the decisions and proposals of the European Regional Working Group at its 22nd meeting held at Chiang Mai in November 2016. WG chair informed that there has been little action during the year due to other work pressures. To avoid a repeat, Chair proposed to (i) develop and agree with WG members on milestones; and (ii) hold regular (possibly bi-monthly) web-meetings for reviewing progress on agreed activities.

2. No new nomination was received from NCs during the year. Present membership status of ERWG is at **Annex 7, (page 55)**.

ERWG Minues Item 1.1: Strengthening the membership in Europe

3. WG noted the efforts made by the Central Office and the President for reactivation of the membership of Germany. VP Dr. Bondarik apprised the Group about the progress on the membership of Georgia and Latvia in ICID. VP Dr. Bondarik informed that an official letter has been received from the Ministry of Agriculture Rural Estate of Latvia, indicating that the government was not willing to support or to join an NGO (National Committee). VPH Lee pointed out that the ICID By-law and the Constitution allow a registered group of individuals to apply as members. VP Dr. Bondarik further informed that she has sent a letter to Belarus and will meet the officials of the Academy of Agricultural Science of Belarus and discuss their potential membership. ESTCID has also been actively talking with Latvia, Lithuania and Belarus to join ICID. It was proposed that there should be examples of the various organizational models of existing national committees that potential members may consider to adopt.

ERWG Minutes Item 2: Road Map to ICID Vision 2030 - Activities relevant to European Region

4. WG discussed and reviewed action plan of the WG (Annex 2 of the agenda, page 68) and discussed about the possible workshop to be held in 2018. It was proposed that one session of the ERWG meeting in 2018 be used as a seminar to discuss hot issues in agricultural water management in Europe. One issue could be the AFEID example of assessment of performance of irrigation materials under consideration for subsidies to encourage installation. It was agreed that National Committees and members will propose presentations to the workshop. A call will be sent out in November 2017 and a call for proposals and abstracts will be received till end of February 2018, and selection by the end of March 2018. The selection panel for the workshop will be VP Ian Makin, PH Peter Lee and Dr. Marco Arcieri.

5. The e-Discussion on Water Issues: After discussion it was agreed that the Chairman will discuss this issue with the YPs from the region as well as IYPeF to explore the possibility to organise e-discussions with their support.

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

6. Group highlighted the need for review of the policy documents related to water resources impacting irrigation and drainage sector in Europe which is included as Activity B2.1 of the action plan of ERWG. Members agreed that the starting point for this could be the “Water Related Risks” document produced in the ERWG couple of years ago. VPH Laszlo Hayde agreed to locate the original documents. The progress of WFD and recommendations for the future was agreed as a potentially useful contribution. PH Bart Schultz agreed to do research progress on basin plans in Europe.

7. Since water scarcity and drought are important issues for Europe, so it was agreed that ERWG need to look into these issues. Members recalled that there used to be Work Teams in ERWG which also include drought and floods. Group requested previous ERWG Chair VPH Hayde to locate the original documents in this regard. Member from Italy proposed to make a suggestion based on the past activities and plans about possible ERWG contribution to agricultural drought management.

8. Member from Italy explained about their experiences to analyse climate change impacts to droughts and providing instructions to farmers on how to adapt their irrigation schemes to climate change. Please see the following link, <https://climate.copernicus.eu/news-and-media/press-room/press-releases/climate-proof-irrigation-strategies-save-crops-italy>, for more information.

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

9. The WG considered the list (Annex 3 Agenda page # 69-70) and noted that it is quite outdated, with some organizations no longer operational. The ERWG requested its members/NCs to review and update the list, including the provision of the information of specific people to contact in each organisation. Engagement with these organizations will be sought when organizing ICID meetings in Europe to expand potential participation.

10. AFEID informed the cooperation between AFEID and the European Irrigation Association as well as with the French Development Agency that contributes resources for the sustainable operation of AFEID also.

ERWG Minutes Item 5: Activities of Focus Groups of ERWG

11. ERWG discussed the issue of Focus Groups and noted that ERWG members are actively continuing their participation in the activities of the relevant working groups. VP Prof. Charlotte de Fraiture (The Netherlands) confirmed that WG-ENV held two workshops in Chiang Mai (Thailand) and they propose to hold a workshop as well as a training session for Young professional in Canada.

12. It was noted that the WG Irrigation and Drainage in the States under Socio-economic Transformation (WG-IDSST) and the Young Professionals e-Forum (IYPeF) were scheduled at the same time as the ERWG. This time conflict meant the ERWG Vice-Chair Peter Kovalenko and representatives of the YPs were not able to participate fully in the ERWG sessions. WG Chair requested ICID CO to look into the matter so that overlap is avoided as far as possible.

ERWG Minutes Item 6: Revitalization of ICID Network

13. The ERWG discussed and stressed need for revitalisation of ICID network in Europe. The members felt that the current structure of the conferences and meetings may not be very interesting for European scientists to participate. ERWG deliberated on alternate structures that could be considered for future events organized in the European region.

14. The members highlighted that the balance of focus and/or influence in Europe has shifted from engineering to environmental led decision making. Similarly, the structure and focus of development cooperation from European member countries to other ICID regions has evolved over time. These changes has weakened the interest of professionals, and their employers, in the activities of ICID. Members stressed to find ways to strengthen the ICID brand in Europe to ensure that the organization remains relevant in these changed operational environments.

15. As an option, the ERWG discussed the potential to organize common European meetings with ICOLD and similar organizations as a means to expand potential participation from Europe in ICID events and working groups.

16. To strengthen the role of ICID members in Europe the ERWG discussed the potential of its members engaging in joint projects financed through EU. The ICID ERWG network could participate in EU project activities to create and facilitate dissemination of project outputs through seminars and workshops and participation on advisory boards. It was proposed that ERWG members should engage in discussions with EU about their funding opportunities. Dr. Röttcher (Germany), Dr. Hayde (Hungary) and Mr. Puu (Estonia) agreed to identify key contacts in the EU by the end of 2017 for discussion during the proposed web meeting of the group in late January 2018.

17. Mr. Verta (Finland) proposed to look into possibilities of ERWG contributing to the China-Europe Water Partnership (CEWP) activities in the coming years and emphasized to make a specific effort to engage with the persons working for Water and Rural Development of the CEWP Partnership Instrument project.

ERWG Minutes Item 7: Dissemination of activities of WG

18. The ERWG noted that some of the organizations that are in the ERWG network (Annex 3 of ERWG agenda page 69) publish their own magazines, in addition to independent magazines, which may be considered as vehicles for dissemination of information about ERWG and ICID activities to a wider audience. The members of ERWG were requested to provide information about possible magazines, including contact information for editors of these publications, by end of December which would then be shared with the Central Office for further follow up. It was agreed that initially short press releases about ERWG and general ICID activities may be sent to these relevant contacts in order to further expand the reach of the ERWG. It was also agreed to create emailing list for ERWG to disseminate information better.

ERWG Minutes Item 7.1: Website of the Group

19. Members discussed issue of updation of the web site of the group and suggested that Young professionals can be requested to manage the website. VPH Laszlo Hayde agreed to update information from the ERWG 20th anniversary to the website while PH Peter Lee agreed to look at the contents of the website to suggest on possible updates.

20. Mr. Mika Turunen had provided a written comments related to the potential engagement of YPs in ICID in general and the ERWG specifically. The unfortunate clash of schedules with the YP session in Mexico prevented his participation in the ERWG discussions. After the meeting, Chair ERWG requested VPH Lee, to explore in collaboration with Mr. Mika. for involvement of YPs in updating and maintaining the ERWG web site and other communication tools.

ERWG Minutes Item 7.2: Webinar / Web-based Seminar

21. The ERWG in general support the suggestion of organizing webinars to promote sharing of vast expertise available with ICID fraternity. Mr. Dominique Rollin (France) was requested to explore whether AFEID would be able to present a webinar on recent work on French irrigation equipment and testing using ICID performance indicators, who agreed to discuss the possibility with AFEID and inform the central office if they are able to arrange it.

ERWG Minutes Item 8: Any other business

22. It was agreed to have regular web meeting by ERWG. Central office will be requested to send out a doodle poll in early December for a meeting to be held in late January or early February to follow-up on the actions agreed in this meeting.



**Minutes of the 8th Meeting of the
WORKING GROUP ON IRRIGATION AND DRAINAGE IN THE STATES UNDER
SOCIO-ECONOMIC TRANSFORMATION (WG-IDSST)**

11 October 2017, 09.00-10.30 hours (Session I)
11 October 2017, 11.00-12.30 hours (Session II)
Mexico City, Mexico

Presented by the Chairman

Year of Establishment: 2009

Extended completion of the Mandate: 2017

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) Engr. Peter Yukubu Manjuk (Nigeria); (5) Dr. Alexander Solovyev (Russia); (6) Dr. Vijay Labhsetwar represented Secretary General Avinash Tyagi.

Observers: (1) Clarke Ballard (Australia); (2) Ashraf El-Sayed (Egypt); (3) Marine Egutia (Georgia); (4) Naresh Modi (India); (5) Haeruddin Cebba Maddi (Indonesia); (6) Soekrasno (Indonesia); (7) Omid Moridnejad (Iran); (8) Hidefumi Murashita (Japan); (9) Yoji Inayoshi (Japan); (10) Kwang Sik Yoon (Republic of Korea); (11) Jong Myong Kim (Republic of Korea); (12) Mohd Adnan Ahmad Fauzi (Malaysia); (13) Gusell Medou (Mexico); (14) Luis Martin Gonzalez (Mexico); (15) Alberto Umela (Mexico); (16) David Castillo (Mexico); (17) Sunmona Kenneth (Nigeria); (18) Dr. Ado K Abdullahi (Nigeria); (19) Mayaishki Yuru (Russia); (20) Dilshod Kimsanov (Tajikistan).

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

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

1. Chair Prof. Peter Kovalenko welcomed the members and presented a report on the actions taken on the decisions and proposals of the working group made at its last meeting at Chiang Mai in November 2016.
2. The WG reviewed the nomination of Eng. W.B. Palugaswewa received from Sri Lankan National Committee for the membership of the group. Since the nominee was not present, the group admitted him as Provisional member.
3. Representatives from Egypt and Georgia requested the Chair of the WG to include their representatives in WG-IDSST viz. Dr. Eng. Mohamed A. Shehata Wahba (Egypt) and Givi Gvardashvili (Georgia), subject to receiving nomination from their NC to ICID Central Office. While the representative from Republic of Korea, Yoon Kwan Sik requested to include him as Permanent Observer in the WG, subject to receiving nomination from Korean National Committee (KCID). Membership status is given in **Annex 7 (page 55)**.

WG-IDSST Minutes Item 2: Road Map to ICID Vision 2030 – Activities in the States under socio-economic transformation

4. The group reviewed and discussed the Road Map to ICID Vision 2030. After deliberations on the action plan of the WG, Sh. Mukhamedjanov presented the main activities such as organization of workshops, publications, development and supporting of database and training to facilitate capacity development. It was pointed out that due to lack of financial resources, WG faced difficulties in organization of the regional workshops. During the meeting, Dr. Vijay Labhsetwar proposed to organize national workshop within individual country on the same topic to avoid the international costs involved and share the results with each other. Dilshod Kimsanov (Tajikistan) proposed to involve young professionals in these national workshops.

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

5. After discussion, the group proposed that to develop and strengthen the network among the countries, following actions to continue which were accepted earlier:

- (a) Every year each country prepare/ compile/ shared information about existing situation and problems in the area of irrigation and drainage, how problems were solved, and what problems did not find solutions;
- (b) Publish the information through ICID web site and other available web sites such as SIC-ICWC;
- (c) ICID Central Office to provide support for e-publications.

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 - Update

6. During the meeting, four presentations were made related to irrigation and drainage issues by representatives from Japan, Korea, Ukraine and Uzbekistan: (i) Dr. Katsuyuki Shimizu (Japan) presented a brief history of development of irrigation and drainage in Japan, (ii) Dr. Kwang Sik Yoon (South Korea) made a presentation on "Irrigation Modernization and Revitalization in Korea". (iii) Prof. Peter Kovalenko (Ukraine) presented the strategy of irrigation and drainage rehabilitation and modernization in Ukraine - 2030 (*developed by joint group of World Bank experts, FAO and Institute of Water Problems and Land Reclamation*), (iv) Dr Shukhrat Mukhamedjanov (Uzbekistan) presented a brief on development of irrigation and drainage in Uzbekistan.

7. In addition to the above, Mr. Dilshod Kimsanov, Secretary of Tajikistan National Committee (TAJCID) submitted a report to the WG about the irrigation and drainage activities of Tajikistan NC.

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

8. The Chair informed the group that a datasheet had already been circulated for creating the database on irrigation and drainage in the countries of transition. After discussion, it was decided that based on the existing materials, the database will be updated and then it may be uploaded on ICID website.

WG-IDSST Minutes Item 6: Scoping Document for the Working Group

9. Dr. Sh. Mukhamedjanov presented the 'Scoping Document' to the members. The revised mandate of the scoping document was discussed and accepted by the members of the working group. During the meeting, Secretary General Avinash Tyagi proposed to include all the existing issues from various countries in the mandate. The Scoping Document for WG-IDSST will be presented to PCSO for approval.

WG-IDSST Minutes Item 7: Any other business

The meeting ended with thanks to the Chair.



**Minutes of the 2nd Meeting of the
ICID YOUNG PROFESSIONAL'S e-FORUM (IYPeF)**
11 October 2017, 09.00-10.30 hours (Session I)
11 October 2017, 11.00-12.30 hours (Session II)
Mexico City, Mexico

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.

Members Present: (1) Ms. Kathleen Heuvel, Coordinator (Australia); (2) Ms. Eman Ragab Nofal (Egypt); (3) Ms. Adey N. Mersha (Ethiopia); (4) Mr. Mika Turunen (Finland).

Observers: (1) Najumuddin Anjum (Afghanistan); (2) Evan Derald (Canada); (3) Willemijn Appels (Canada/Netherlands); (4) Heidi Salo (Finland); (5) Ephraim Sekyi-Annan (Ghana); (6) Mr. G. Paavan Kumar Reddy (India); (7) Er. Harish K. Varma, ICID Central Office (India); (8) Sahar Norouzi (Iran); (9) Mortaza Yazdekhesti (Iran); (10) Shinji Fukuda (Japan); (11) Toshihiko Kuno (Japan); (12) Mr. Yuta Takeno (Japan); (13) Jisun Kim (Republic of Korea); (14) Won-Ho Nam (Republic of Korea); (15) Jeong Min Ryu (Republic of Korea); (16) Mohd Adnan Ahmad Fauzi (Malaysia); (17) Zairizal Zainon (Malaysia); (18) Ms. Maria Liliana Terrazas-Onofre (Mexico); (19) Amahroq Othmane (Morocco); (20) Amali A. Amali (Nigeria); (21) Dr. Ado K. Abdullahi (Nigeria); (22) Michael van der Laan (South Africa).

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

IYPeF Minutes Item 1: Action taken report by Coordinator

1. After the first IYPeF meeting in November 2016, IYPeF Coordinators organized a virtual meeting in January 2017. At this meeting, the coordinators finalised the e-discussion and webinar topics and assigned the role of lead coordinator for an e-discussion topic. The activities undertaken by the group in 2017 were discussed and highlighted.
2. Based on the online election of IYPeF Joint Coordinators, the following two IYPeF members were elected as new Joint Coordinators for the year 2017-18:(i) Ms. Eman Ragab (Egypt); and (ii) Mr. M. Shoaib Saboory (Afghanistan). Membership status is given in **Annex 7 (page 55)**.
3. The group acknowledged and thanked the outgoing Co-ordinators, namely, Mr. Abdullahi Hassan Hussein (Somalia), and Ms. Jakia Akter (Bangladesh) for their valuable contributions which were much appreciated.

Accordingly, the updated IYPeF Coordinators were:

- (i) Ms. Kathleen Heuvel (Australia), Coordinator (2016)
- (ii) Ms. Adey N. Mersha (Ethiopia), Joint Co-ordinator (2016)
- (iii) Mr. Rafat Nael Al-Intaki (Iraq), Joint Co-ordinator (2016)
- (iv) Mr. Mika Turunen (Finland), Joint Co-ordinator (2016)
- (v) Ms. Eman Ragab (Egypt), Joint Co-ordinator (2017)
- (vi) Mr. M. Shoaib Saboory (Afghanistan), Joint Co-ordinator (2017)

IYPeF Minutes Item 2: Report of the 1st virtual meeting of IYPeF, 16 January 2017

4. A brief report on the first virtual meeting organized on 16 January 2017 was presented by the Coordinator. The Coordinator informed that the possibility of linking IYPeF with social media platforms such as Facebook, Twitter etc. is being explored by Dr. Mika Turunen (Finland) after considering pros and cons of such linking. (See Item 3 also).

5. The coordinator further reported that as per the suggestion of Secretary General Avinash C. Tyagi four e-discussions on identified topics were held in 2017 and a 2-page summary of the outcomes of the e-discussion was produced by the lead coordinator.

IYPeF Minutes Item 3: Report of the e-discussions

6. Chair informed that in 2017, IYPeF organized four of the five planned e-discussions to enable the YPs to contribute their views on various topics related to the two Questions of the Congress as well as the Symposium and Seminar organized during 23rd ICID Congress. Based on active participation and rich contribution to the discussions, Young Professionals were selected for Scholarships to join 23rd Congress and 68th IEC meetings. The following Young Professionals received scholarships:

- (1) Ms. Adey N. Mersha (Ethiopia)
- (2) Mr. Mika Turunen (Finland)
- (3) Ms. Eman Ragab (Egypt)
- (4) Ms. Sahar Norouzi (Iran)
- (5) Mr. Paavan Kumar Reddy (India)
- (6) Mr. Amali Abraham Amali (Nigeria)
- (7) Mr. Sanchez Altamirano, Carlos Andres (Ecuador)

7. The following Young Professionals viz. Mr. Rafat Nael Al-Intaki (Iraq) and Mr. M. Shoaib Saboory (Afghanistan) did receive the scholarships but unfortunately could not attend the meetings.

8. The Coordinator informed that there were over 260 members in the IYPeF LinkedIn group. There was active participation from members and a wide range of views shared in the e-discussions. The discussion topics and their lead coordinators were as follows:

- (1) Water-Food-Energy Nexus in a Changing World (Ms. Adey N. Mersha)
- (2) Gendered Impacts of Climate Change on Agriculture (Ms. Jakia Akter)
- (3) Opportunities and Challenges of Drainage Development (Mr. Mika Turunen)
- (4) Role of Irrigation in Food Security (Ms. Kathleen Heuvel)

9. A 2-page summary of each discussion was prepared and shared by the lead coordinator. The 5th e-discussion on 'On Farm Efficiency for Small Scale Farming' (Mr. Rafat Nael) could not be held in 2017 due to conflicting dates and will now be held in 2018.

10. The Coordinator stressed that there is a growing interest in engaging with the other social media platforms and therefore a small group will explore the suitability of Facebook, Instagram and Twitter to share information in a more informal manner and to promote the discussions and webinars taking place on the LinkedIn forum. This would be of benefit to YPs located in countries that do not have access to LinkedIn e.g. Russia. VP Irena Bondarik (Russia) conveyed the interest of Russian YPs to connect with the IYPeF for exchange of knowledge and information. Mika Turunen and Amali Abraham will explore the suitability of Facebook, Instagram and Twitter to share information in a more informal manner and to promote the discussions in the regions having no access to LinkedIn. Once the most suitable online platform is decided upon, a proposal on the same will be submitted to Central Office. The group reiterated that the discussions and webinars will continue to be on the LinkedIn platform.

IYPeF Minutes Item 3.1: Water-Food-Energy Nexus in a Changing World (Ms. Adey Mersha)

11. Chair informed that Ms. Adey Mersha coordinated the first e-discussion on "Water-Food-Energy Nexus in a Changing World" from 6-27 April 2017. During the e-discussion, Vice President Prof. (Ms.) Charlotte de Fraiture (The Netherlands) acted as a Mentor. It was informed that the link between water, energy and food is inextricable in the sense that water is an input for producing agricultural crops and along the entire agro-food industry and supply chain. The global community is well aware of food-energy-water challenges, but has often addressed them in isolation, within their sectoral margins. A brief report was presented.

IYPeF Minutes Item 3.2: Gendered Impacts of Climate Change on Agriculture (Ms. Jakia Akter)

12. The second e-discussion on "Gendered impacts of climate change on agriculture" was coordinated by Ms. Jakia Akter from 16 May to 3 June 2017. It was informed that Climate change is an important factor in agriculture since it can affect every step of the crop's growth. In rural areas, women spend more time for food

production, collecting and storing food, fuel for cooking and heating, feeding their families, as well as water for all domestic uses, which means less time is spent on education, development work, health etc. A brief report was presented.

IYPeF Minutes Item 3.3: Opportunities and Challenges of Drainage Development (Dr. Mika Turunen)

13. The third e-discussion on “Opportunities and challenges of drainage development” was coordinated by Dr. Mika Turunen from 9-30 June 2017. It was informed that although drainage can play a potential role in food production, there are also challenges in the wider adoption of the drainage procedures. Therefore, it may be argued that institutional mechanisms for drainage implementation have not fully developed. It is also open for debate whether it would be more efficient to consider drainage infrastructure as a public good which should be publicly funded or as a private investment of a farmer. A brief report was presented.

IYPeF Minutes Item 3.4: Role of Irrigation in Food Security (Ms. Kathleen Heuvel)

14. The fourth e-discussion on “Role of irrigation in food security” was coordinated by Ms. Kathleen Heuvel from 21 August- 8 September 2017. It was informed that the crop productivity has a vital role in achieving both food security and water sustainability which are in ever increasing demand around the world. In order to explore the role of irrigation in food security, we must also consider environmental issues resulting from over exploitation and poor management of water resources as food production depends on the sustainable use of such land and water resources. A brief report was presented.

IYPeF Minutes Item 3.5: On Farm Efficiency for Small Scale Farming (Mr. Rafat Nael)

15. The Coordinator informed that the discussion on the above topic was postponed due to date conflicts and will be completed in the coming year.

IYPeF Minutes Item 4: Active participation in ICID Webinar services

16. The Coordinator provided a brief update on the organization of webinars in 2017:

- (i) Water Use Efficiency: Er. Felix Reinders (South Africa) on 1 March 2017
- (ii) Water Accounting and Audit : Dr. Wim Bastiaanssen (The Netherlands) on 3 April 2017
- (iii) Practical Benchmarking for Improving Performance of Irrigation and Drainage Schemes: Dr. Martin Burton (UK) on 7 June 2017
- (iv) Planning for Irrigation Modernization – The MASSCOTE Approach: Dr. Robina Wahaj (FAO) on 5 July 2017
- (v) National Water Account: Australian Experience: Dr. Amgad Elmahdi (Australia) on 18 July 2017
- (vi) In Spanish: Seminario web sobre El Marco de Contabilidad de Agua WA+ para la Gestión de Recursos Hídricos: Dr. Gonzalo E. Espinoza (UNESCO-IHE) on 25 July 2017
- (vii) In Arabic: Water Accounting: Dr. Yasir A. Mohamed on 5 September 2017

17. During the meeting, members observed that the Webinar on Water Accounting was also presented in Spanish and Arabic. In order to reach a wider audience, the group would like to ensure that there are more webinars offered in languages other than English. Dr Mohamed El Hagarey (Egypt) agreed to present the next Webinar in December 2017 or early 2018.

IYPeF Minutes Item 5: Capacity development programme for Young Professionals from Asian region in 2017, China

18. The group noted that ICID in association with the Chinese National Committee (CNCID) is planning to organize a five-day training programme in November/ December 2017 on the theme “Performance Assessment of Irrigation Systems”. NCs will be invited to nominate Young Professionals (YPs) from institutions involved in agriculture water management within Asian countries to attend the programme.

IYPeF Minutes Item 6: Training workshops for Young Professionals (YPs) in October 2017, Mexico

19. Two half-day training workshops for YPs will organized on 13 October 2017 on the topics viz. (a) Value Engineering: An effective and efficient methodology for enhancing irrigation, drainage and flood management projects: (b) Irrigation Water Management to Adapt to Climate Change. All Young Professionals are encouraged

to attend this training and refer to the training materials that have been distributed for a background understanding of the training topics.

IYPeF Minutes Item 7: Proposed e-discussion and webinar topics for 2018

20. During the meeting, IYPeF discussed the suggested topics for the e-discussions and webinars for 2018. It was proposed that the list of suggested topics will be reviewed and shortlisted by the IYPeF Coordinators. During virtual meeting in November/December 2017, the IYPeF Coordinators will finalize the topics for e-discussion and webinar to be held in 2018 together with the name of the “facilitating” coordinator.

21. The members discussed and proposed the following topics for e-discussion:

- (i) Groundwater for Sustainable Agriculture
- (ii) On Farm Efficiency for Small Scale Farming
- (iii) Tackling Poor Quality Irrigation Water
- (iv) Policy Options for Enhancing Food Security
- (v) Engaging Young Professionals in Irrigation & Drainage
- (vi) Understanding the Impacts of Poor Drainage Practices

22. Some of the suggestions for Webinars were as follows:

- (i) Re-estimation of common area boundaries for old Irrigation schemes using GPS & GIS as a tool
- (ii) Application of Remote Sensing and GIS
- (iii) Water Productivity, an Afghani Experience
- (iv) Enabling Change. Lessons in communication, extension for practice change

23. It was informed that this is not a full list and the Coordinators will liaise with the Central Office via virtual meeting to finalize a shortlist from the very extensive list of topics suggested.

IYPeF Minutes Item 8: Any other Business

The meeting ended with thanks to the Chair.



**Minutes of the 1st Meeting of the
WORKING GROUP ON WATER FOR BIO-FUEL AND FOOD (WG-BIO-FUEL)**
12 October 2017: 13:30:15:00 hours (Session-I) and 15:30:17:00 hours (Session-II)
Mexico City, Mexico

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2016**Completion of the Mandate: 2022**

New Mandate: To collect, analyze, and dissemination 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, and (d) the international dialogue on biofuel and agricultural water management between regions and countries.

Members Present: (1) Dr. Fuqiang Tian (China); (2) Dr. Sanjay Belsare (India); and (3) VPH Dr. Gerhard R. Backeberg represented Mr. Andre Roux (South Africa).

Observers: (i) PH Dr. Gao Zhanyi (China); (ii) Dr. Dong Bin (China); (iii) Ir. Wang Shuolh (China); (iv) Ir. Rayshyan Wu (Chinese Taipei); (v) Ir. Yamen Chineh (Chinese Taipei); (vi) Mr. Paavan Kumar Reddy Gollapalli (India); (vii) Dra. Margarita González B. (Mexico); and (viii) Vice President Prof. Dr. Charlotte de Fraiture (Netherlands).

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

WG-BIO-FUEL Minutes Item 1: Introducing of the new Working Group

1. Dr. Fuqiang Tian (China), Chairman of the WG presented the report based on the finalized Scoping Document for the new Working Group on Bio-Fuel and Food (WG-BIO-FUEL) and briefed members of the actions taken on the decisions made during the last meeting held in Chiang Mai (2016), Thailand.

2. The WG reviewed the membership of the group which includes two new nominations i.e. Mr. Abdul Wahab Siyal (Pakistan) and Dr. Jose Reyes Sanchez (Mexico). Since the new nominees were not present in the meeting, their membership were approved as Provisional Member. Several members have not contributed to the activities of the WG during last two years, according to the ICID By law 3.5, WG recommended to discontinue their membership and invite new nominations from their corresponding NC i.e. Mr. Rajiv Kumar (India), Mrs. Ruaa Khalid Hamdan (Iraq), and Mr. Uttam Raj Timilsina (Nepal). WG noted that Mr. Andre Roux (South Africa), represented by VPH Dr. Gerhard R. Backeberg in the meeting, has retired. WG agreed to invite new nomination from the South African National Committee of ICID to replace him. The WG also proposed to invite new nominations, including YPs from various NCs, especially the major biofuel production NCs.

3. Dr. Sanjay Belsare from India was nominated by the WG to serve as Vice Chair of the WG. Membership status is given in **Annex 7 (page 55)**.

WG-BIO-FUEL Minutes Item 2: Road Map to ICID Vision 2030 - Activities on Bio-Fuel

4. The WG discussed the Action Plan for the WG-BIO FUEL finalised based on the report "A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030" and confirmed the activities, outputs /outcomes, and milestones for each year of the WG (Annex 2 of the WG Agenda [page 94]). According to the planned activities of the ICID Action Plan 2030, the Chair proposed to update report of working group as a position paper on BIO-FUEL. As the key players in bioenergy production include Brazil, China, Europe, India and USA, the WG agreed to request the corresponding members from these countries to provide material for developing a position paper.

5. WG Chair proposed to conduct a joint-workshop with WG-CLIMATE with focus on water-food-energy nexus, tentatively scheduled during 2019 WIF3 at Bali, Indonesia.

WG-BIO-FUEL Minutes Item 3: Publications of the Working Group

6. The Group proposed to organise some internal workshop on potential publications of the WG and invite particularly young researchers (including graduate students) which would also attract them to participate into the working group activities. The WG will organize first internal workshop by soliciting abstracts from ICID channels.

WG-BIO-FUEL Minutes Item 4: Updating Multilingual Technical Dictionary (MTD)

7. During the Chiang Mai meeting (2016), the group discussed the updation of the MTD and nominated Mr. Mojtaba Poumoghadam (Iran) as a nodal person to undertake the task with the support of Mr. Mortaza Yazdkhasti (Iran). The matter could not be discussed due to absence of these two persons. The WG suggested ICID CO to contact Iran NC to reach them for the latest update of MTD status. It is pointed out that the WG needs to first identify the terms that it feels need to be included from Bio Fuel perspective.

WG-BIO-FUEL Minutes Item 5: Dissemination of Activities of WG**WG-BIO-FUEL Minutes Item 5.1: Website of the Group**

8. The WG introduced the function of the website of the Group http://www.icid.org/tf_bio_energy.html to the members. 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 website of the WG. VPH Dr. Backeberg informed that he will share some publications on biofuel via email.

WG-BIO-FUEL Minutes Item 5.2: Webinar / Web-based Seminar

9. The WG discussed the organization of webinar and suggested that Dr. Sanjay Belsare (India) will solicit a webinar from biofuel expert before the next year's working group meeting.

WG-BIO-FUEL Minutes Item 6: Any other business

10. **Invited Talk:** WG organized an invited talk by Professor Margarita González Brambila from Metropolitan University of Mexico on "water-food-energy nexus" in October 2017 at Mexico City.



**Minutes of the 2nd Meeting of the
WORKING GROUP ON CLIMATE CHANGE AND
AGRICULTURAL WATER MANAGEMENT (WG-CLIMATE)**

11 October 2017, 13.30-15.00 hours (Session I)
11 October 2017, 15.30-17.00 hours (Session II)
Mexico City, Mexico

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2015

Extended the 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 analyse 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 academician, 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, Chair (Japan); (2) Dr. Ray Shyan Wu, Vice Chair (Chinese Taipei); (3) PH Dr. Gao Zhanyi represented Dr. Tian Fuqiang, Secretary (China); (4) Mr. Mika Turunen (Finland); (5) Dr. Sanjay Belsare represented Mr. Sanjay Kumar Singh (India); (6) Dr. Nozar Ghahreman (Iran); (7) Prof. Dr. Choi, Jin-Yong (Korea, Rep.of); (8) Er. Harish K Varma represented Secretary General Avinash Tyagi.

Observers: (1) Willemijn Appels (Canada); (2) VP Mohamed Wahba (Egypt); (3) Ms. Eman Ragab Nofal (Egypt); (4) Ms. Adey N. Mersha (Ethiopia); (5) Seija Virtanen (Finland); (6) Olli-Matti Verta (Finland); (7) Heidi Salo (Finland); (8) VPH Shinsuke Ota (Japan); (9) Dr. Naoki Hayashida (Japan); (10) Naoko Koshiyama (Japan); (11) Yoji Imayoshi (Japan); (12) Hidefumi Murashita (Japan); (13) Prof. K.S. Choi (Korea, Rep.of); (14) Jaepi Cho (Korea, Rep. of); (15) Zairizal Zainon (Malaysia); (16) Rene Lobato Senchez (Mexico); (17) Isnacio Sanchez Cohen (Mexico); (18) Abraham Rojano (Mexico); (19) Waldo Ojeda (Mexico); (20) Ernesto Sifuentes (Mexico); (21) Amahroq Othmane (Morocco); (22) VP Charlotte de Fraiture (Netherlands); (23) Olayinoza Baruwa (Nigeria); (24) Olufemi Odumosu (Nigeria); (25) Mr. Amali A. Amali (Nigeria); (26) Michael I. Nwabuofo (Nigeria); (27) Dr. Ado K Abdullahi (Nigeria); (28) Engr. Oluniyi Esther Oyeronke (Nigeria); (29) Mirza Junaid Ahmad (Pakistan); (30) Daniel Carey Machlo (Peru); (31) Ernest Malatzi (South Africa); (32) Dr. Hakan Aksu (Turkey); (33) Yalçın Dağın (Turkey); (34) Dr. Maurice Roos (USA).

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

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

1. At the onset, the Chair Dr. Watanabe welcomed all the members and informed about the latest status on the action point emerging from the minutes of the previous meeting of the WG at Chiang Mai in respect of (i) updation of the terms of MTD related to the scope of the group, (ii) submission of a paper based on the background paper of the Sub-theme 2 of WIF2 to the Journal of Irrigation and Drainage, (iii) information sharing within the WG through internet.

2. The WG reviewed the membership of the group which includes two new nominations. Membership status is given in **Annex 7 (page 55)**. Since the new nominees were not present in the meeting, their memberships were approved as Provisional Members. The member from Spain had not contributed to the activities of the WG during last two years so as per ICID By-laws 3.5, it was recommended to discontinue the membership of Spain with the recommendation to invite new nomination from them.

WG-CLIMATE Minutes Item 2: Road Map to ICID Vision 2030 - Activities on climate change and agricultural water management

3. The WG discussed the Action Plan for the WG-CLIMATE finalised based on the report "A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030" and confirmed the activities, outputs /outcomes, and milestones for each year of the WG (**Annex 2 of Agenda – page 100 of 68th IEC**). According to the scheduled activities, the WG planned to prepare four case studies for the year 2017 including two cases under activity B3.2 "Organize introduction of the cases to be applied to other regions" and the other two under activity D2.1 "Develop

Integrated Assessment of Climate Change Impacts” (under Goal D2) which would form the base for preparing a Position Paper on “Smart Water Management for Mitigating Climate Change” (activity B6.2).

4. The WG decided to prepare a table of contents of finalising “Guideline for Water Management Practices under Changing Climate” (activity B6.1), and the position papers on “Smart Water Management for Mitigating Climate Change” (activity B6.2) and on “Adaptation to Climate Change” (activity B6.3). And the responsibilities of the WG members will be assigned through the discussions on the WebEx meeting of the WG.

WG-CLIMATE Minutes Item 3: Dissemination of activities of WG – Website of the group

5. The website of the working group <http://wg-climate.icidonline.org/> was updated with the CVs of the members. During the meeting, Dr. Fuqiang Tian, Secretary of the WG, reported about progress of the dissemination of activities of WG, including updation of the website of the WG. The WG Chair requested all members to submit CV and additional material for uploading on the WG website for wider dissemination to Dr. Fuqiang Tian/ ICID Central Office. The members may like to note that the link has been established under the WG website wherein reports of Intergovernmental Panel on Climate Change (IPCC) including assessment reports, methodology reports and special reports are available.

WG-CLIMATE Minutes Item 4: Updating Multilingual Technical Dictionary (MTD)

6. Dr. Waleed Hassan Abou El Hassan (Egypt) circulated the assignment and the work plan and time frame for completion of the task to all members with a request to edit/ update the terms of MTD related to the scope of the group. During the meeting, Chair briefed the progress of updating of MTD terms on behalf of the team leader Dr. Waleed Hassan and informed that the updation of 129 terms under 10 categories is likely to be completed by the end of October 2017 which would be shared with ICID Central Office and WG members for their review and suggestions.

WG-CLIMATE Minutes Item 5: Internal Workshop on “Agricultural water management under the changing climate”, October 2017, Mexico

7. The WG organized an internal workshop on the theme “Agricultural water management under the changing climate” at Mexico City. The main objective of the workshop was to discuss the cases on climate change issues. In line with the activities for the WG under A Roadmap to ICID Vision 2030, the WG Chair invited four presentations/ case studies focusing on - (a) water management practices under climate change, (b) change in policies and practices under changing climate, and (c) development of integrated assessment of climate change impacts. Members were invited to present the case study of their country or project at workshop.

8. The WG plans to organize a workshop during the 69th IEC in Canada in 2018, in cooperation with other work bodies like the WG-ENV, which had an idea to co-organize the workshop in 2017. The WG might organize the workshop or symposium in the next World Water Forum or the ICID Congress. The Chair will develop the possibility to organize a joint workshop or session during PAWEES conference to be held in Nara, Japan on 20-22 November 2018.

WG-CLIMATE Minutes Item 6: Webinar/ Web based seminar

9. The WG acknowledged the significance of the Webinar seeing the experiences of the webinars already implemented, and recognized that the WG need to propose and support the webinar on climate change related topic, especially for younger professionals. The WG proposed one Webinar by Dr. Jaepi Cho of APEC Climate Center, Korea with the tentative title “Downscaling and Seamless Climate Service for Adapting against Climate Change”.

WG-CLIMATE Minutes Item 7: Any other business

10. Seeing the support of ICID on promoting the involvement of young professionals, the WG welcomes new nomination of young professional from various NCs.



**Minutes of the 2nd Meeting of the
WORKING GROUP ON ENVIRONMENT (WG-ENV)**

11 October 2017, 13.30-15.00 hours (Session I)

11 October 2017, 15.30-17.00 hours (Session II)

Mexico City, Mexico

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) VP Prof. (Ms) Charlotte de Fraiture, Chair (Netherlands); (2) Prof. N. Hatcho, Vice Chair (Japan); (3) Mr. V.C. Ballard (Australia); (4) Dr. (Ms) Seija Virtanen (Finland); (5) Ir. Mohd Azmi Ismail (Malaysia); (6) Dr. Yury Anatolyevich Mozhaiskii (Russia); (7) Dr. Vijay Labshetwar represented Secretary General Avinash Tyagi.

Observers: (1) Marina Eqtia (Georgia); (2) Givi Gavazelashvili (Georgia); (3) Shinji Fukuda (Japan); (4) Naoko Koshiyama (Japan); (5) Mr. Yuta Takeno (Japan); (6) Mohd. Adnan Ahmad Fanzi (Malaysia); (7) VP Irene Bondarik (Russia); (8) VPH Gerhard Backeberg (South Africa); (9) Michael van der Laan (South Africa); (10) Michael Mierzwa (USA).

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

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

1. Chair Prof. Charlotte de Fraiture welcomed the members and presented a report on the actions taken on the decisions and proposals made at its last meeting at Chiang Mai in November 2016 including organization of the on-line WebEx meeting for WG-ENV on 1st June 2017.

2. No new nominations were received from NCs since last meeting. Membership status is given in **Annex 7 (page 55)**. WG reviewed the existing membership and observed that members from China (YP), India, Iran, Iraq and Chinese Taipei have not been participating/ contributing to the working group for two or more years – WG suggested to discontinue their membership (*as per ICID By-laws 3.5*) and invite new nomination from these National Committees / Committee.

3. During the meeting, Vice Chair Prof. Hatcho (Japan) expressed his willingness to step down as Vice Chair. However, the group suggested that since only five members were present at the meeting, the selection of new Vice Chair and Secretary be postponed till next meeting in 2018 at Saskatoon, Canada. Prof. Hatcho, therefore, continues as Vice Chair and Dr. Seija Virtanen (Finland) acted as recording Secretary.

WG-ENV Minutes Item 2: Road Map to ICID Vision 2030 - Future activities of the group (2016-2019)

4. During the meeting, Chair presented the activities and strategy of the group to achieve the Goal A “Enable higher crop productivity with less water and energy” of the Road Map to ICID 2030 which are in line with WG-ENV mandate and the ICID goals.

5. Chair made a presentation on the positive consequences of ecosystem services of irrigation. She proposed that the benefits should be evaluated based on a larger basis than farmer’s scope only. Besides the negative impacts, irrigation also produces positive impacts, as ecosystems services, even in larger perspective, and their monetary value can be evaluated. For example, the flood protection of urban areas or the cooling effect caused by paddy fields in areas surrounding urban areas. A lively discussion arose out of the presentation and the positive impacts were endorsed by the members as well the observers.

6. Chair asked for comments from the members to the strategies as per **Annex** (page 102 of 68th IEC Agenda). After discussion, two amendments for the Strategy 6.2 were proposed. Firstly, to amend the sentence as follows “Improving performance of irrigation and drainage systems” and secondly, to take into account the ecosystem services of aquacultures.

WG-ENV Minutes Item 3: Report of online WebEx meeting of the group, 01 June 2017

7. Chair provided a brief report of the online WebEx meeting organized on 01 June 2017 and the group accepted the report with the supplements. Members noted the updates.

WG-ENV Minutes Item 4: Publications of the Working Group –LCA

8. The group noted that the final document titled “Assessing the environmental impacts and the sustainability of irrigation and drainage systems: the potential contribution of Life Cycle Analysis” had been prepared by Dr. Sylvain Perret (France). Since Dr. Perret was not available in the meeting, there was no discussion on the subject.

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

9. Chair informed the group that during the first virtual online WebEx meeting, Prof. Hatcho had volunteered to take up the task of reviewing and updating the environment related terms of the Multilingual Technical Dictionary (MTD). During the meeting, Prof. Hatcho informed that he had searched the terms to be updated and shared the list of the terms with the members of the group for further comments. After discussion, the members were requested to go through the terms and provide their response to Prof Hatcho.

WG-ENV Minutes Item 6: Joint workshop with WG-CLIMATE at Mexico , October 2017

10. Chair informed the group that the joint workshop with WG-CLIMATE was not organized because the WG-CLIMATE had already arranged an internal workshop on the theme “Agricultural water management under the changing climate” during Mexico meeting. The WS was being held in parallel to the second part of the meeting of the WG-ENV and therefore the Chair proposed and all members and observers agreed to wind up the groups’ meeting early and join the WS as above for mutual benefits

WG-ENV Minutes Item 7: Dissemination - Sharing Documents on Website

11. The Chair informed the members about the establishment of the “Dropbox” and the members of the group were satisfied with that. It was suggested that the presentations made at Chiang Mai would be placed in the Dropbox and website.

WG-ENV Minutes Item 8: Any other business

12. The Chair proposed to develop an ICID technical paper on “Ecosystem Services from Irrigation Systems”. She further proposed to collect the best papers for the technical report by organizing a workshop during the 69th IEC in 2018 at Saskatoon, Canada. The proposal was seconded and there were many volunteers willing to make a presentations at the workshop related to “Climate smart irrigation and drainage”. Chair will discuss with the ICID Central Office and the Canadian Organizers for the possibility to organize such a workshop.

13. Prof. Hatcho shared the 1st Announcement of the International Conference on “Promoting sustainable paddy soil farming to achieve the SDG” during 20-22 November 2018 at Nara, Japan. To make use of the platform, it was proposed that a follow up workshop be organized related to paddy soils in Japan during above conference. Prof Hatcho will discuss with the organizers of this conference and evaluate whether it is possible to organize such a workshop during the conference.

14. Dr. Yury Anatolyevich Mozhaiskii from Russia made a presentation on “Internal soil humidity exchange and chemical quality of capillary and groundwater”.

15. Chair thanked all the members and the observers for sparing their valuable time for participating in the meeting as well as Dr. Mozhaiskii for his presentation. The meeting ended with thanks to the Chair.



**Minutes of the Informal Meeting of
NEWLY PROPOSED WORKING GROUP ON INTEGRATED FLOOD MANAGEMENT (WG-IFM)**

12 October 2017, 09.00-10.30 hours (Session-I)
12 October 2017, 11.00-12.30 hours (Session-II)
Mexico City, Mexico

Strategy Theme: Basin

Presented by the Chairman

Mandate (new): To be finalised

Members Present: (1) Dr. Kamran Emami (Iran), Chairman; (2) Dr. Takao Masumoto (Japan), Vice-Chairman; (3) Mr. Olli-Matti Verta (Finland); and (4) Mr. Maurice Roos (USA).

Observers: (i) Ir. Warren Helgasun (Canada); (ii) Ir. Li Yunpeng (China); (iii) Dr. Klaus Rottcher (Germany); (iv) VPH Hafied Gany (Indonesia); (v) Prof. Syaiful Mahdi (Indonesia); (vi) Mochammad Amrdn (Indonesia); (vii) Ir. Sahar Nowroozy (Iran); (viii) Ir. Yoji Imayoshi (Japan); (ix) Ir. Rose Lobato (Mexico); (x) Ir. Michael I. Nwabufu (Nigeria); (xi) Ir. Jisun Kim (South Korea); (xii) VP Prof. Dr. Charlotte de Fraiture (The Netherlands); (xiii) PH Bart Schultz (The Netherlands); and (xiv) Eng. Muhammad Ashraf (USA).

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

WG-IFM Minutes Item 1: Introduction of the Scoping Document

1. As per in principle approval of the PCTA, in its meeting at Chiang Mai in 2016, for the formation of a new Working Group on 'Adaptive Flood Management' (WG-AFM) and suggestion to develop the scoping document with new mandate, WG Chair developed a scoping document for a new WG with revised mandate which was circulated in July 2017 to the members of the WG for their comments. Few members of the WG and ICID CO provided their comment on the draft scoping document. ICID CO suggested that working group be named as Working Group on Integrated Flood Management (WG-IFM) to cover broader aspects of flood management and not to restrict the scope of WG to only adaptive flood management.

2. WG Chair Dr. Kamran Emami (Iran) presented the scoping document for the new Working Group on Adaptive Flood Management (WG-AFM) incorporating views/suggestions from the members received on the draft scoping document. WG Chair informed that although ICID CO has suggested name of the new working group as WG-IFM but he propose to keep name as WG-AFM. The Chair further mentioned that "Adaptive Flood Management" is mainly about coping with uncertainties of hydro-systems especially climate change and is a new concept in comparison to "Integrated Flood Management" and there are many publications on "Integrated Flood Management" while there is no publication on "Adaptive Flood Management" (There are some publications on Adaptive Water Resources Management). After discussion on the scoping document and mandate of the new WG, members were of the view that title of the WG is not very important and finally agreed to keep the name as WG-AFM with the following mandate:

New mandate of the WG:

- (a) To motivate ICID National Committees in various countries to set up their National Working Groups,
- (b) To provide guidance to compile, publish, update and/or translate documents on adaptive flood management;
- (c) To promote inter-disciplinary exchange of information, knowledge and experience, as well as networking on the topic for proper understanding of the technological developments in the subject;
- (d) To organize seminars at ICID Congresses and meeting to enhance deeper understanding of adaptation to floods and coping with floods including community participation with focus on impact of floods on agriculture water management;
- (e) To prepare a paper on "Adaptive Flood Management" for publication in Irrigation and Drainage (IRD);
- (f) To finalize a book on "Adaptive Flood Management".

3. The PCTA, in its meeting held on 13 October 2017 at Mexico City, while reviewing establishment of new workbodies noted that the process of establishing a new WG addressing issues related to floods WG-IFM by developing a Scoping Document is in process. PCTA recommended that the WG can be approved only if at least 10 NCs support its activities by way of sponsoring its experts to participate in the WG. Accordingly, PCTA suggested ICID CO to circulate the scoping document to all the NCs.

WG-IFM Minutes Item 2: Road Map to ICID Vision 2030 - Activities on Integrated Flood Management Issues

4. The Working Group discussed and finalised the Action Plan 2030 of the Group to support Road Map to ICID Vision 2030. In this regard, WG members updated the activities on flood management issues.

WG-IFM Minutes Item 3: Closure Report and the Publication of the Working Group on 'Adaptive Flood Risk Management'

5. The Chairman agreed to finalise the closure report of the WG-CAFM and send the same to ICID CO for records and uploading on the website of the WG.

6. The WG decided to publish a document on "Adaptive Flood Risk Management" (covering both structural and non-structural aspects of flood management) based on the workshop papers and country presentations on floods. The final document of the WG was presented by Chair during the meeting of the group. WG Chair agreed to incorporate views and suggestions of the members and to finalise the publication by the end of May.

WG-IFM Minutes Item 4: Any other business

7. Mr. Maurice Roos (USA) and Mr. Michael Mierzwa (USA) from the California Department of Water Resources (USA) made presentations "The 2017 Oroville Spillway Failure" and "Lessons Learned in Comparing 2017 California and U.S. Gulf Coast Floods" respectively followed by discussions. WG Chair requested to upload these permutations along with other materials provided by the members on the webpage of the WG.

8. WG agreed to organize a Workshop on 'Flood and Agriculture' during the 69th IEC and International Conference to be held in August 2018 in Canada.



**Minutes of the 1st Meeting of the
WORKING GROUP ON MANAGING WATER SCARCITY UNDER
CONFLICT DEMANDS (WG-MWSCD)**

12 October 2017, 13.30-15.00 hours (Session-I)
12 October 2017, 15.30-17.00 hours (Session-II)
Mexico City, Mexico

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2016

Completion of the Mandate: 2022

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; (i) National, (ii) area or basin; and (iii) 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) organise international workshop on the topic; and (e) prepare an overview paper on the topic for publication.

Present Members: (1) VPH Franklin E. Dimick (USA), Chairman; (2) Mr. V.C. Ballard (Australia), Secretary; (3) Prof. Chang-Chi Cheng (Chinese Taipei); (4) Dr. Takanori Nagano (Japan); and (5) Dr. Hakan Aksu (Turkey), Young Professional.

Observers: (i) Ir. Carlos Sanchez (Ecuador), Young Professional; (ii) VPH Mohamed Adb-El-Moneim Wabha (Egypt); (iii) Ir. G. Paavan Kumar Reddy (India), Young Professional; (iv) Dr. Sanjay Belsare (India); (v) Ir. Alireza Salamat (Iran); (vi) Mr. Yuta Takeno (Japan); (vii) Ir. Akira Iwamoto (Japan); (viii) Dr. Jaepil, Cho (Korea); (ix) Ir. K.S. Choi (Korea); (x) Ir. Rene Lobato (Mexico); (xi) Ir. Michael. I. Nwabufu (Nigeria); (xii) Ir. Amali Abraham Amali (Nigeria), Young Professional; (xiii) Ir. Jan Ming-Young (Taiwan); (xiv) Mr. Yalcinda Dalgin (Turkey); (xv) Ir. Michael Merzwa (USA); (xvi) Ir. Maurice Roos (USA); and (xvii) Ir. Stanislaus Chisakvta M. (Zambia).

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

WG-MWSCD Minutes Item 1: Introduction of the new Working Group

1. The Chairman welcomed those present and explained the difference in mandate between the earlier WG Drought and the new WG-MWSCD. The positions of office bearers were declared vacant.
2. Members unanimously agreed to appoint VPH Franklin E. Dimick as Chairman and Mr. V.C. Ballard as Vice-Chairman. No Secretary was appointed but Mr Ballard agreed to continue as acting secretary till the next meeting.
3. Applications from prospective new members were considered. Dr Jaepil Cho from Korea was present and accepted as a member. Mr Raquib Khan (Pakistan) was not present. He was accepted as a provisional member of the WG. Present membership status of the WG is at **Annex 7 (page 55)**.

WG-MWSCD Minutes Item 2: Road Map to ICID Vision 2030: Activities of the WG

4. The activities of the new WG to support the Road Map to Vision 2030 were reviewed and changes were made to the action plan keeping in view the revised mandate of the WG. Revised action plan of the WG is given as **Annex 1**.
5. As a part of WG action plan it was agreed to organize a workshop during ICID Conference at Saskatchewan, Saskatoon, Canada, 12–17 August, 2018 in conjunction with the Conference organizers. The workshop fits neatly into sub-theme 1: Competing Water Demands of that Conference. Mr. Clarke Ballard was selected to organize the workshop with the assistance of Dr. Nagano and Prof. Cheng.
6. It was agreed that prior to the Conference each working group member will provide a case study from his or her country. The form of these contributions will be guided by a brief set of questions (3 or 4) to be answered. Similar contributions will also be sought more widely and these contributions, together with a keynote paper, will be used as background material for the workshop. Members briefly discussed the possible questions for case study and the title of the workshop (see **Annex 2**) and agreed that the final versions will be distilled from those

discussions. It was further agreed that data collected during workshop will be evaluated and summarized so as to be included with other data collected by the Working Group into a “Review paper” for publication as an output of the WG action plan.

WG-MWSCD Minutes Item 3: Publication - Technical Report of the WG-DROUGHT

7. Theme 2, as written by Professors Chiang- Chai Cheng and Jan Ming-Young was recently received by the Chairman and has been circulated to the members for their comments/suggestions. Members were requested to provide their comments by 1st November 2017. The final full document incorporating comments on theme 2 papers from the members, if any, will then be circulated to the members of the WG for their review and final comments prior to submission to ICID Central Office by March 2018 for editing and publishing.

8. WG Chair informed the members that the publication of the erstwhile Working Group on Irrigated Agriculture Development under Drought and Water Scarcity (WG-IADWS) has been placed on the ICID website by the Central Office.

WG-MWSCD Minutes Item 4: Updating Multilingual Technical Dictionary (MTD)

9. Dr. Takanori Nagano (Japan), who is already on the Working Group for the Dictionary, volunteered to ensure that terms important to the WG are included in the Technical Dictionary as far as possible. There is still a lot of work to do on the Dictionary. Dr. Nagano was selected as the WG’s representative to this effort.

WG-MWSCD Minutes Item 5: Exchange of Information, Knowledge & Networking

WG-MWSCD Minutes Item 5.1: Website of the WG

10. The website of the WG Drought www.icid.org/wg_drought.html will become the website for the new WG. Dr Jaepil Cho volunteered to be the “webmaster” for the WG. It is intended to provide links to relevant articles from any source.

WG-MWSCD Minutes Item 5.2: Webinar / Web-based Seminar

11. The Working Group discussed the organization of a webinar and suggested members to suggest topics along with name of the experts who can be approached to deliver the webinar. WG agreed to hold a virtual meeting in March, 2018 to evaluate the status of activities, including proposed Workshop in Saskatoon, Canada.

WG-MWSCD Minutes Item 5.3: Seminar/events related to Drought/Water Scarcity

12. The information of the seminars/events on drought was noted for information.

WG-MWSCD Minutes Item 5.4: Any other business



Annex 1 [Appendix XV, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG- MWSCD

	Activity	Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal B: Be a catalyst for change in policies and practices							
Strategy B2 : Promoting Risk Management	Encourage entities to reduce risks of water scarcity by planning for competing demands Look for existing indices related to water scarcity	Increased water reliability; Increased understanding of consequences of water scarcity / Links to articles & papers related to water scarcity				Final review article summarizing country case studies related to addressing water scarcity	
Strategy B4 : Encouraging Development of Drought Management Policies	4.1 Advocating role of agricultural drainage under drought	Advocacy material					
	4.2 Manging with limited water under drought	Technical report/ Guidelines					
	4.3 Develop guidelines on drought risk management strategies	Guidelines		Finalisation of the draft guidelines	Release the finalised guidelines		Updation of guidelines
Strategy B7: Advocate for Maintaining Balance between Development and Environment	7.1 Compile best practices in irrigation and drainage in the world on managing water <i>caused by competing demands</i>	Report	First meeting of WG	Host workshop at ICID Canada	Prepare summary report on ICID Canada workshop	Final review article summarizing country case studies related to addressing water scarcity	



Annex 2 [Appendix XV, Item 2]**First Draft Questionnaire
MANAGING WATER SCARCITY UNDER CONFLICT DEMANDS (MWSCD)**

GOAL: Each country to develop a short-paper describing a case study addressing the following questions.

1. What is the main reason for competition on Irrigation Water?
(Legal gaps, diverse economical activities, limited water resources, population growth, environmental considerations, etc.)
2. What strategies were used to meet the demand for irrigation under conflicting demands?
(water pricing, spatial regulations, intermitted irrigation, action plans etc.)
3. What were the results of the strategies used to meet the competing demands? (including successes and failures)
4. Please provide some references or data within each case study.
Brief information for success / failure case studies for MWSCD.

Possible Title for Workshop**Priorities for Water Use – New (or emerging) Demands Competing with Irrigation**

- Priorities is a key word to include within the questions
- Priorities could appear in a sub-heading
- These will need to be identified
- Differentiate between water scarcity vs. competing demands
- Describe the legal – historical framework and its relation to identifying priorities for water use
- Identify stressors, such as population growth, and new demands
- Consider quality and/or quantity of water supplies and demands
- Sharing information and stressors with various users will help with identification of priorities

Resolving Competing Demands for Irrigation

- Some countries will have examples with resolution to challenges, others may not
- Identifying quality needs for different purposes may be part of the solution for resolving competing demands for quantity of water

Strategies to Accommodate Competing Demands for Irrigation Water

- Wider potential application of approaches / plans for addressing challenges
- Could be a sub-title for the topic (including outcomes)



**Minutes of the 7th Meeting of the
WORKING GROUP ON SUSTAINABLE DEVELOPMENT OF TIDAL AREAS (WG-SDTA)**

12 October 2017: 09:00-10:30 hours (Session-I)

12 October 2017: 11:00-12:30 hours (Session-II)

Mexico City, Mexico

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2011

Extended the completion of the Mandate: 2017

Mandate: 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.

Present Members: (1) Dr. Ruey-Chy Kao, Chairman (Chinese Taipei); (2) PH Bart Schultz represented Mr. Henk P. Ritzema, Vice-Chairman (The Netherlands); (3) Ir. Hidefumi Murashita represented Dr. Hajime Tanji (Japan), Secretary; (4) Ir. Chi-An Huang represented Dr. Hsiao-Weng (Chinese Taipei) young professional; (5) Dr. Jeongryeol Jang (Korea); (6) PH Gao Zhanyi represented Prof. Zhang Zhanyu (China); and (7) Dr. Vijay K. Labhsetwar represented Er. Avinash C. Tyagi, Secretary General.

Observers: (i) VP Mohamed Wahba (Egypt); (ii) Ir. Wang Haili (China); (iii) Eng. Chih-Tsung, Chin (Chinese Taipei); (iv) Ir. Jin. Yong Choi (Korea); (v) Ir. Chang-Chi Cheng (Chinese Taipei); (vi) Mr. Yuta Takeno (Japan); (vii) Ir. Chamsung Oh (Korea); (viii) Ir. Jungseok, Jang (Korea); (ix) Ir. Chung Feng Ding (Taiwan); (x) Ir. Kuang Ming Chuang (Taiwan); (xi) Ir. Rayshyaa Wu (Taiwan); and (xii) Mr. G. Paavan Kumar Reddy (India) Young professional.

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 Chiang Mai (2016), Thailand. The WG-SDTA has been preparing for various activities mentioned in the **Annex 1**.
2. To meet the expectation of the new mandate, 2017-2022 activities, the WG-SDTA is already promoting: (1) Sophisticated water-saving irrigating development with IOT and water-saving irrigation model techniques (activity 1.1 in Annex 1) and (2) Promoting exchange of water-saving experiences (activity 1.2 in Annex 1).
3. It was observed that the provisional members from Sri Lanka (Eng. L.S. Sooriyabandara) and Iraq (Eng. Ibrahim Abbas as Young Professional and Eng. Ghanim Hameed Hassan Alhashimi) have not been contributing to the WG and hence, the WG recommended the discontinuation of their membership.
4. Mr. Paavan Kumar Reddy, a Young Professional from India, expressed his desire to join the WG. The Chair provisionally admitted him subject to nomination from Indian National Committee of ICID (INCSW). Membership status is given in **Annex 7 (page 55)**.

WG-SDTA Minutes Item 2: Road Map to ICID Vision 2030 - Activities on Sustainable Development of Tidal Areas

5. The Group further discussed and finalized the Draft Action Plan 2030 and will be submitting its input to PCTA for inclusion in the Road Map to ICID Vision 2030. The highlights were: Goal 3: Facilitate exchange of information, knowledge and technology (workshop proceedings & Special Issue of Irrigation and Drainage); and Goal 6: Facilitate capacity development (short course/training & e-discussion on Sustainable Development of Tidal Areas

etc.) were very relevant to the activities of WG-SDTA as given at **Annex 1**. Steps to execute the above actions will be announced in early 2018.

6. However, in 2017, the WG has already undertaken: Short Course/Training Workshop on Sustainable Development of Tidal Area (activity 3.7 in Annex 1) and Special Issue of ICID Journal on SDTA (activity 4.26 in Annex 1).

WG-SDTA Minutes Item 3: Publications of the Working Group: A Special Issue of ICID Journal on SDTA in 2017

7. The WG decided to publish a Special Issue of ICID Journal titled “*Sustainable Development of Tidal Areas: Climate Change and Environmental Impacts*” by end of 2017 or early 2018. The Special Issue will consist of 12 papers of which 8 papers have been finalised and 4 others are in the final stage of review process.

WG-SDTA Minutes Item 4: Dissemination of activities of WG

8. The organization of Web-based seminars/e-discussions is innovative and new to the WG. Further, the members of the WG discussed the possible topics and contents.

WG-SDTA Minutes Item 4.1: Website of the Group

9. The Chair invited all the members to send papers/ presentations/ reports to him by e-mail so that it can be uploaded on the website for dissemination. The Chairman specially urged the members from Korea, Japan, China and Chinese Taipei to take lead.

WG-SDTA Minutes Item 4.2: Web-based seminars/ e- discussions

10. The Chairman invited all the members to initiate and conduct the web-based seminars to share experiences, knowledge and technological know-how by raising some questions for discussion in the Webinar. The Chairman once again requested the members from Korea, Japan, China and Chinese Taipei to lead from front.

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

11. The WG observed that the task assigned to Prof Hajime Tanji (Japan) remains unfulfilled due to his prolong illness. The Chair invited other members of the Group to succeed of Prof. Tanji and complete the task of updating WG related terms in the MTD.

WG-SDTA Minutes Item 6: Scoping Document (mandate) for a new WG

12. The Chair presented the ‘Scoping Document’ (mandate) for a new WG in 2016 and further refined it (**Annex 2**) during the meeting and members agreed to take up actions as per the Draft Action Plan 2030. The WG recommended the final mandate of the WG to PCTA/IEC for consideration.

WG-SDTA Minutes Item 7: Any other business

Cooperation between Institutions from Taiwan and Korea

13. The MoU was signed (2016) between the two organisations i.e. the Rural Research Institute (RPI) of Korea Rural Community Corporation (KRC), Tainan Hydraulic Laboratory (THL), National Cheng Kung University (NCKU), for future cooperation on issues of mutual interest in the area of SDTA. The area of cooperation for now is the tidal area development and conservation, to avoid flooding disasters.

OBITUARY

14. INACID recently informed that the Permanent Observer Prof. Robiyanto Hendro Susanto (Indonesia) has passed away. Members expressed their deep sympathy to family of Prof Susanto.



Annex 1 [Appendix XVI, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-SDTA

	Activity	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 B: Be a catalyst for change in policies and practices								
Strategy B1 : Supporting Development of Appropriate Policies	1.1 Promoting Sophisticated water-saving irrigation development with IOT and water-saving irrigation model techniques exchanges	Technical report, workshop proceedings and water industry web site	Preparing: 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 & improvement	Examination Plan results & improvement
	1.2 Promoting up-to-date water-saving experience exchange	As above	As above	As above	As above	As above	As above	As above
	1.10 Sustainable drainage management experience exchange	Internet of Things Water industry workshop						
Goal C: Facilitate exchange of information, knowledge and technology								
Strategy C4 : Compile, Collate and Share Knowledge and Experiences	4.26 Special Issue of ICID Journal on SDTA	Special issue of IRD	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		
Strategy C5 : Dissemination of Data, Information, Tools, Knowledge and Know How	5.8 Develop and maintain the ICID web site as a knowledge hub	On-line						
Goal E: Encourage research and support development of tools to extend innovation into field practices								
Strategy E3 : Develop and Promoting Tools for AWM	3.2 The application for output of development tools from academic institutions							
Goal F: Facilitate capacity development								
Strategy F3: Technical Training of Young Professionals from Member Countries	3.7 worksh/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
	3.8 To launch e-Discussion on Sustainable Development	E- discussion	E-discussion on Sustainable Development of Tidal Areas		e-Discussion on SDTA		e-Discussion on SDTA	

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)

Annex 2 [Appendix XVI, Item 6]**SCOPING DOCUMENT 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:
7.
 - (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 2nd Meeting of the
WORKING GROUP ON CAPACITY DEVELOPMENT, TRAINING AND EDUCATION (WG-CDTE)**

12 October 2017, 09.00-10.30 hours (Session I)
12 October 2017, 11.00-12.30 hours (Session II)
Mexico City, Mexico

Strategy Theme: Knowledge

Presented by the Chairman

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. Young D. Kim (Korea), Vice-Chairman represented Mr. Seung Won Lee; (2) Mr. Hasan B. YUKSEL (Turkey); and (3) Er. Harish Kumar Varma, Executive Director, ICID CO representing Secretary General, ICID.

Observers: (i) Mr. Naseer Ahmad Fayez (Afghanistan); (ii) Ir. Jan Ming-Young (Chinese Taipei); (iii) VPH Laszlo Hayde (Hungary); (iv) VPH A.B. Pandya (India); (v) Dr. Saeed Nairizi (Iran), President, ICID; (vi) Prof. Masayoshi Satoh (Japan); (vii) VPH Bong Hoon Lee (Korea); (viii) Mr. Jaepil Cho (Korea); (ix) Ir. Abraham Rojano (Mexico); (x) Ir. Jose Reyes (Mexico); (xi) Ir. Bartali Elhoussine (Morocco); (xii) Ir. Michael. I. Nwabufu (Nigeria); and (xiii) Ir. S. Aydin Aytay (Turkey).

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

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

1. Since the Chair and Vice Chair of the WG could not attend the meeting, Mr Hasan B. YUKSEL from Turkey was co-opted as chair of the group to conduct the meeting with the support of Er. Harish Kumar Varma, ICID CO. Keeping in view the limited number of the members of the WG, WG recommended to invite fresh nominations for the group so that the important agenda of the group can be taken forward. Participants in the meeting felt that this WG is very important to take forward ICID roadmap for Vision 2030 as capacity development is the key to implement action plan and achieve outcome of the roadmap. Dr Nairizi, President, ICID suggested that WG need to work continuously and regularly and not only during its face to face meeting during IEC. WG suggested to create awareness about the WG among NCs so that suitable and interested persons can be nominated to the WG by the NCs.

WG-CDTE Minutes Item 2: Road Map to ICID Vision 2030 – Activities on capacity development, training and education

2. WG discussed and reviewed action plan of the WG (Annex 2 of the agenda, page 122-123) and noted that roadmap of the WG is very ambitious and exhaustive and it would be difficult to implement this action plan without proper support and interest from the NCs. It was felt that WG needs to be strengthened as number of requests are being made by various NCs for capacity building.

3. After deliberations following action points were suggested for strengthening WG and implementing its action plan (i) Working group should collaborate with each National Committees for helping out with the requests received from different NCs. (ii) Expert pool is needed to be augmented so that road map is implemented. (iii) WG should initiate action early on preparation of Report on role of ICT in capacity development. (iv) The Technical Support Unit (TSU) has already been setup in ICID CO but is yet to be fully operational. To make full use of TSU, WG needs to guide and support TSU to take its activities on a focused path. Formulation and setup of the new programmes is also required to be taken up simultaneously through TSU. (v) It is necessary that the expert pool

and the capacity building needs are brought together. List of training institutes and their capacities to offer trainings in specific areas need be generated and made available for satisfying such needs.

4. VPH Bong Hoon Lee, KCID informed that to support activities of TSU, an expert is being deputed on long term (initially one year) to ICID CO to support and coordinate activities of TSU. WG also noted that discussions have taken place between Japan, Chinese Taipei and Korea to provide and augment the support to TSU.

5. VPH Lazlo Hyde (Hungary) pointed out that the activities of the WG will require lot of administrative work for new programmes such as creation of databases of the training institutes and experts, training needs assessment etc. which appears to be difficult at present in the absence of nominations for membership of the WG. He suggested that the existing and ongoing programmes of various institutes can provide some solutions in a readymade fashion. Existing Programmes can be vetted for their suitability for the specific needs of a capacity building request and can be used at short notice.

6. Morocco was of the view that training of farmers should also be given due importance and expressed that they can support some training programmes for Sub-Saharan Africa regions at the same time even showed interest to receive some trainings on specific topics. Exchange of Post Graduate students can also be considered for capacity building as well as generate understanding of new techniques.

WG-CDTE Minutes Item 3: Promoting capacity development, training and education

WG-CDTE Minutes Item 3.1: Updates on activities of Technical Support Unit (TSU)

7. WG was apprised on the latest status of Technical Support Program (TSP) activities. It was informed that TSU has been already setup and is functional. WG appreciated KCID for their support the activities of TSU in terms of proposed deputation of an expert on long term, financial support to (\$ 5000) to the capacity development fund and proposal for similar contributions during 2018 and 2019. WG also appreciated Pakistan NC and Egypt NC for nominating short term experts for TSU and also noted KCID's willingness to depute short term experts for assignments under TSP as and when required.

WG-CDTE Minutes Item 3.2: Training programme for YPs (Asian Region)

8. WG noted that training programme for Young Professional (YP) for Asian region to be held in China in November/December 2017 is being finalized with the collaboration of CNCID.

WG-CDTE Minutes Item 3.3: Training programme for YPs in 2018

9. KCID informed that a new building and infrastructure for KRC's RC-IEEC is likely to be fully operational by the end of year 2017 and same can be used for capacity development activities by ICID. KCID further offered to organize training programmes for YPs at RC-IEEC in 2018 while Morocco offered to organize training programme in 2019 along with proposed 5th African Regional Conference. Mr Jaepil Cho (Team Leader, Climate Application Team, APEC Climate Center, email: jpcho89@apcc21.org), Korea offered to support any training programme on climate change and adaptation at their center.

WG-CDTE Minutes Item 4: Knowledge Management Strategy

10. VPH A B Pandya made a presentation (uploaded on WG web site) highlighting the plan of action for the proposed ICID KM strategies. The plan provides for physical on site as well as virtual trainings and proposed to extensively use the cloud and web based facilities to universalize the reach of the programmes. Mr. Cho, APCC, Korea suggested need to provide a platform for linking technology provider with user, i.e farmers Morocco NC representative suggested that ICID need to consider developing certification programme accredited through some universities.

11. VPH Lee, KCID suggested that existing regional nodes of IRPID (China and Iran) and proposed nodes (Italy and Egypt) can be requested to share their database as well as gather information from their region to support ICID knowledge management strategy.

WG-CDTE Minutes Item 4.1: Dissemination of Knowledge

12. The WG introduced the function of the website of the Group http://www.icid.org/wg_cdte.html to the members. 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 website of the WG.

WG-CDTE Minutes Item 4.2: Sharing of Knowledge

13. The Group discussed about various platform for knowledge sharing such as ICID international events such - WIF, Congresses, Regional Conferences, WG meetings, Web based seminar (Webinars) etc. WG supported the idea of webinar / web-based seminar as a very useful platform for knowledge sharing and noted that seven webinars have been organized by ICID CO on topics such as water use efficiency, benchmarking, irrigation system modernization, and water accounting, which were well received by the more than 100 participants in each webinar. The Central Office also requested members to provide their suggestions on the topics on which webinar can be considered along with name of the relevant experts who could be contacted to develop webinars.

14. The WG requested other WGs to provide suggestions on the topics of Webinar that they would like to coordinate during the next year upto 69th IEC meeting in Saskatoon, Canada.

WG-CDTE Minutes Item 4.3: E-learning programmes as a capacity development tool

15. The Group supported the idea of development e-learning programme as a part of capacity development programme and it was suggested that WG through its members and NC need to develop inventory of already available e-learning modules related to agriculture water management as well as identify need for development of new modules to fill the gap. KCID informed that RC-IEEC of KRC, once fully functional, will support ICID in identifying and developing e-learning modules on various topics.

WG-CDTE Minutes Item 5: Any other business

**Minutes of the 20th Meeting of the
WORKING GROUP ON HISTORY OF IRRIGATION, DRAINAGE AND
FLOOD CONTROL (WG-HIST)**

12 October 2017, 13.30-15.00 hours (Session I)
12 October 2017, 15.30-17.00 hours (Session II)
Mexico City, Mexico

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 1998

Extended the completion of the Mandate: 2017

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, Chair (Iran); (2) VPH Dr. Laszlo Hayde (Hungary); (3) Dr. Marco Arcieri (Italy) represented Mr. Antonio Linoli; (4) Prof. N. Hatcho (Japan); (5) Mr. Jong Myong Kim (Republic of Korea); (6) Dr. Jose Luis Martinez (Mexico); (7) Engr. Sirika Ahmad Abubakar (Nigeria); (8) VPH Dr. Gerhard Backeberg (South Africa).

Observers: (i) Li Yunpeng (China); (ii) Mr. Alireza Salamat (Iran); (iii) Ms. Sahar Norouzi (Iran); (iv) Narges Zohrabi (Iran); (v) Dr. Naoko Koshiyama (Japan); (vi) Mitsuo Ishijima (Japan); (vii) Engr. Mukhlis Zainol Abidin (Malaysia); (viii) Mu Mu Than (Myanmar).

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

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

1. Chair welcomed the members and presented the report on the actions taken on the decisions and proposals of the last meeting of the working group held at Chiang Mai in November 2016.

2. The WG reviewed the membership of the group which included four new nominations viz. Korea, Mexico, Sri Lanka and Egypt. Since Mr. Jong Myong, Kim (Republic of Korea) and Dr. Jose Luis Martinez Ruiz (Mexico) were present, they were accepted as members while Eng. S.P.C. Sugeeshwara (Sri Lanka) and Eng. Ahmed Awad Hag Abd-Elnabi (Egypt) were accepted as Provisional Members for one year as they were not present. Their membership will be regularized subject to their contributions in 2018. Membership status is given in **Annex 7 (page 55)**.

WG-HIST Minutes Item 2: Road Map to ICID Vision 2030 - Activities on history of irrigation, drainage and flood control

3. The WG discussed the Action Plan for the WG-HIST and confirmed the activities, outputs /outcomes, and milestones for each year of the WG (*page 142 of 68th IEC*). After discussion, the group proposed to organize a Workshop on “*Historical Water Sustainability*” during 69th IEC meeting in Canada in 2018.

WG-HIST Minutes Item 3: Publication on “Historical Water Sustainability”

4. Chair Dr. Kamran Emami provided brief updates on the final version of the WG publication titled ‘*Historical Water Sustainability*’. He informed that 15 chapters were ready. However, Mr. Abernethy could not complete the task of editing the chapters for health reasons. The Chair proposed to write to PH Peter Lee (UK) for his help in editing the chapters. It was further proposed that PH Prof. Bart Schultz would prepare a uniform format for the chapters while Chairman would complete the concluding chapter and finalize the book by August 2018 with help from other members in reviewing and e-publishing by ICID Central Office.

WG-HIST Minutes Item 4: Exchange of information, knowledge & networking - Website

5. Chair encouraged members to access the WG webpage and provide their comments/ suggestions for further improvement and also share relevant document/ report/ article/ presentation etc. for uploading on the website.

6. Professor Klaus Roettcher (Germany) gave a presentation on the '*Synergy of Water Engineering and Archaeology*' of a region in Jordan (population estimates) by estimating the hydraulic capacity of a historical canal.

7. Dr. Emami gave a presentation on the synergy of water history for seasonal flood forecasting in Iran in fall 2015. As a result of timely seasonal forecasts in 2015, Iranian Power Ministry issued a warning one month before the first major flood in South-West Iran in October 2015.

WG-HIST Minutes Item 5: Review of Historical Irrigation Structures (HIS) and WSH Program

8. During the meeting, the group noted the progress of Historical Irrigation Structure (HIS) and development of World Water System Heritage (WSH) Program. WG also noted that 13 irrigation structures were included in the ICID Register of Heritage Irrigation Structures (HIS) in 2017. Chair also informed that WG members have been actively contributing to the activities of HIS initiatives and thanked them for their support.

WG-HIST Minutes Item 6: Closure report and Scoping Document (mandate) of the Working Group

9. The Chair briefly mentioned that the closure report was submitted in 2016 and further discussed the scoping document (SD) with the members during the meeting and finalised the mandate of the new WG. Chair informed the group that as per the procedure approved by the IEC for setting up of the new WGs, the revised Scoping Document (**Annex**) was circulated to all NCs in May 2017 for their comments and new nominations. VPH Laszlo G. Hayde brought the attention of the group to eight representatives as above and two new nominees that have shown interest in the new WG. It was proposed to submit the finalized SD to PCTA for approval.

WG-HIST Minutes Item 7: Any other business

The meeting ended with vote of thanks to the Chair.



Annex [Appendix XVIII, Item 6]

WORKING GROUP ON HISTORY OF IRRIGATION, DRAINAGE AND FLOOD CONTROL (WG-HIST)
UPDATED SCOPING DOCUMENT

1. Introduction

- 1.1 As we entered the 21st century, humanity was confronted with three fundamental problems that were interrelated in a complex system: water crisis, sustainability and flood mitigation. Coping with the water-related challenges in the 21st century requires major technical jumps and innovations in all related fields.
- 1.2 In knowledge management sphere, it is often pointed out that it is important to distinguish between data, information, knowledge and wisdom. The generally accepted view is to see data as simple facts that become information as it is combined with meaningful structures, which subsequently become knowledge as meaningful information is used to make predictions. This view looks at data as a prerequisite for information, information as a prerequisite for knowledge and knowledge as a prerequisite for wisdom. When facts are put into a context, and combined within a structure, information emerges. When information is given a meaning by interpreting it, information becomes knowledge. At this point, facts exist within a mental structure that consciousness can process, for example, to predict future consequences, or to make inferences. As the human mind uses this knowledge to choose between alternatives, behavior becomes intelligent. Finally, when values and commitment guide intelligent behavior, behavior may be said to be based on wisdom.
- 1.3 In the era of super computers today, the process of a typical data to become wisdom may take a day or a week or a month in some industrial cases. But in the context of water engineering, the time span may be a year or a decade or a century. Consequently, the water wisdom of the past which was achieved in a period of hundreds of years can be regarded as a unique and irreplaceable gift from our ancestors to contemporary water engineers. Hopefully, the water wisdom of our ancestors would play a key role in our adaptation with the water related challenges in the 21st century. It is, therefore, necessary that we look back at the ancient creation of the fertile human brains that used the synergy of science and art at that moment of time to provide us with abundant food for thought. It should be remembered that foundation of the future rests on the achievements of the past.
- 1.4 The water engineering is a vital part of the story of civilization. Reservoirs for water supply were undoubtedly, among the earliest structures, devised by mankind. The role that water management structures have played over the ages is documented in many records of historical lands. These structures have been linked closely to the rise and fall of civilizations, especially to those cultures highly dependent upon water/ irrigation.
- 1.5 The mission of ICID is to stimulate and promote the development and application of the arts, sciences and techniques of engineering, agriculture, economics, ecological and social sciences in managing water and land resources for irrigation, drainage and flood management for achieving sustainable agriculture water management and water history can be used for achieving this mission.

2. Objectives

The objectives/ relevance of the WG can be specified as follows:

- (a) Water History aims to foster historical understanding of the relationship between water and humankind. Lessons learned from water history can be used to enhance our strategies for sustainable irrigated agriculture.
- (b) The WG is expected to contribute to effective implementation of the Strategy Theme Schemes and to other strategy themes;
- (c) The water engineers will be facing greater challenges in the coming decades. Water history can be used to inspire them and promote the stakeholders' participation, creativity and innovations.

3. State of knowledge on the topic**3.1 International Organizations that are working on the subject**

There are very few other International Organizations that have programs and activities on this topic. This especially concerns with the:

- (a) **International Water History Association (IWHA):** The International Water History Association (IWHA) aims to encourage, promote, and foster historical understanding of, and research in, the relationship between water and humankind. IWHA fosters a stronger relationship between those engaged in water history and water administrators, engineers, scientists, planners and other practitioners. Creating public awareness of the role of water in world history and to promote public participation in resolving water resource issues is the main activity.
- (b) **World Water Council (WWC):** ICID brought forward the idea of recognizing World Water System Heritage (WSH) at the 50th Board of Governors (BoG) meeting of World Water Council (WWC) in Budapest, Hungary in October 2013. During the 58th BoG meeting of WWC held in March 2016 in Jodhpur, India, the program was approved in principle. The World Water System Heritage (WSH) Program, a member-driven initiative by ICID in collaboration with various water-related international organizations and WWC, aims to identify and preserve the people-centered water management systems, organizations, regimes and rules as intangible water heritage considered to be of outstanding value to humanity that created coexistent social systems for humanity and sound environment and giving them recognition. ICID Central Office currently functions as Secretariat for the WSH Program.

- (c) **International Commission on Irrigation and Drainage (ICID):** At the 63rd meeting of International Executive Council (IEC) held at Adelaide, Australia on 28 June 2012, President Gao Zhanyi suggested that a process for recognition of the historical irrigation structures on the lines of World Heritage Sites as recognized by UNESCO shall be initiated. A historical irrigation and drainage structure fulfilling the criterion, and based on the recommendation of the Jury and approved by the International Executive Council will be included in the “ICID Register of Heritage Irrigation Structures” and presenting a “Heritage Irrigation Structure (HIS)” Plaque citing the salient features of the HIS. The ICID Register of HIS would be publicized through ICID media channels and can be accessed at http://www.icid.org/his_award.html.

3.2 **Mandate of the Working Group**

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) To motivate ICID National Committees in various countries to set up their National Working Groups on History;
- (b) To provide guidance to compile, publish, update and/or translate documents on history of irrigation, drainage, and flood management;
- (c) To promote inter—disciplinary exchange of information, knowledge and experience, as well as networking on the topic (agricultural, political, socio-economic, climatologically and geographical, aspects) for proper understanding of the technological developments on the subject;
- (d) To organize seminars at ICID Congresses to enhance awareness of Water history;
- (e) To prepare a paper on “Historical Water Sustainability” for publication in *Irrigation and Drainage (IRD) Journal*;
- (f) To finalize a book on “Historical Water Sustainability”.
- (g) To encourage member countries to produce documentaries on Water History.

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

WG-HIST would promote synergy with all International Organizations active in water history. Perhaps, collaboration through Memorandum of Understanding (MoU) for mutual knowledge sharing and co-hosting events could promote lessons learned from water history.

4. **Work Plan**

4.1 **Scope**

The WG is expected to investigate, analyse, and disseminate information on different aspects of water history and to formulate recommendations with respect to:

- (a) Ensuring sustainability of irrigation and flood projects;
- (b) Combining old methods and modern technologies for enhanced creativity and innovation;
- (c) Recognition of the historical structures.

4.2 **Target audience**

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 and anybody interested in ““A water secure world, free of poverty and hunger through sustainable rural development””.

4.3 **Outputs**

The following outputs can be expected from this WG:

- (a) Proceeding of the seminars and workshops;
- (b) A book on “Historical Water Sustainability”;
- (c) WG website – dissemination of knowledge;
- (d) Overview paper on “Historical Water Sustainability” for publication in *Irrigation and Drainage (IRD)*.

4.4 **Timelines**

A six-year tenure is requested for this phase of WG activities.



**Minutes of the 24th Meeting of the
ICID JOURNAL EDITORIAL BOARD (EB-JOUR)**

12 October 2017, 13.30-15.00 hours (Session-I)
12 October 2017, 15:30-17:00 hours (Session-II)
Mexico City, Mexico

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. Graziano Ghinassi (Italy), Associate Editor; (3) VPH Laszlo Hayde (Hungary), Associate Editor; (4) by Dr. Graziano Ghinassi represented Prof. Daniele de Wrachien (Italy), Associate Editor; (5) Dr. Takao Masumoto (Japan), Associate Editor; (6) Dr. Yohei Sato (Japan); (7) Prof. Waldo Ojeda-Bustamante (Mexico), Associate Editor; (8) VPH Larry Stephens (USA), and (9) Dr. Vijay K. Labhsetwar, Director, ICID Central Office.

Observers: (i) Dr. Severine Tomas (France); (ii) Mr. Mamoru Watanabe (Japan); (iii) Mr. Takeshi Kikutsuji (Japan); (iv) Prof. Jin-Yong Choi (Korea); (v) Dr. Kwongsik Yoon (Korea); (vi) Mr. Marcos Cerrilab (Mexico); (vii) Dr. Maurrico Carrillo Garcia (Mexico); and (viii) Dr. Abraham Rojano Aguilar (Mexico).

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 Bart Schultz informed that the report of the Chairman for 2016 had been disseminated to the members of the Editorial Board before the meeting. Various points emerging from the report were discussed during the meeting.
2. It was proposed that the nominations of Prof. Jin-Yong Choi (Korea) and Dr. Severine Tomas (France) as Associate Editors be accepted. Dr. Tomas is expected to assist Bernard Vincent with checking of French resumes/texts.
3. It is proposed that the membership of Prof. Leon van Rensburg (South Africa) be discontinued since he has not been contributing the EB. Further, since, the C-PR&P has come to a closure at Mexico Meetings, the membership of Mr. Larry Stephens (USA), who represented the Committee on EB, also came to an end. The members expressed their gratitude to Mr Stephens for his contributions to the EB since 2001. Membership status is given in **Annex 7 (page 55)**.

EB-JOUR Minutes Item 1.1: Special Issues

4. Eight Special Issues may be expected, they being:
 - (a) A Special Issue with selected papers of the 2nd World Irrigation Forum (2016). It will be published as Issue 67.1;
 - (b) A 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, 2015 and 2016. The Special Issue is expected to be published by the end of this year. The issue is jointly sponsored by the Japan, Korea and Taiwan committees;
 - (c) A Sponsored Special Issue by the Iranian National Committee (IRNCID) based on selected papers from the 13th International Drainage Workshop held in March 2017 at Ahwaz, Iran is expected to be published by the end of this year, or early next year;
 - (d) A Sponsored Special Issue on 'New Developments on Irrigation in Africa', which is based on the results of a European Union supported project with several partners, especially IRSTE (France) and Wageningen University (The Netherlands) is expected to be published in 2018;

- (e) The French National Committee (AFEID) is taking care of a Sponsored Special Issue with selected papers of the European Regional Conference held in Montpellier (2015). The Special Issue is expected to be published in 2018;
- (f) A sponsored Special Issue by the Mexican National Committee (MXCID), based on selected papers of the ICID Congress in Mexico (2017) is expected to be published in 2018;
- (g) A Special Issue with selected papers of the 23rd ICID Congress is expected to be published as a regular issue;
- (h) A Special issue with invited papers based on the road map towards the ICID vision 2030 is expected in 2018.

EB-JOUR Minutes Item 1.2: French resumé

5. The French resumes have been discussed with representatives of the French National Committee. It has been agreed that the French resumes will be checked within a month of its submission. With the acceptance of Dr. Severine Tomas as a new Associate Editor, this possibly can be effectively implemented.

EB-JOUR Minutes Item 1.3: Recognition to the reviewers

6. Reviewers are recognised in the first issue of next year. In addition, they can register in PUBLONS, which is a web site for recognising of reviewers. Upon request we can send reviewers a certificate of appreciation.

EB-JOUR Minutes Item 1.4: Review process

7. Since the Joint Editor, Prof. Jiusheng Li could not join the Mexico Meetings, a presentation prepared by him was screened by the Chairman. The presentation showed his experiences with the review process of some related Journals and his recommendations for improvement of the review process of IRD.

8. During the meeting, a Table was shown with present and proposed periods for the various steps in the review process. Some modifications were made. The modified periods will be used from January 2018 onwards.

9. It was agreed to mention the names of Joint and Associate Editors in a footnote on the first page of the paper, if they agree to it. The chairman will explore as to which names can be included on the first page

EB-JOUR Minutes Item 1.5: Best Paper Award 2017

10. The winner of the 'Best Paper Award 2017' was announced during the IEC Plenary meeting on 10 October 2017. The winners were : *Sabine J. Seidel, Stefan Werisch, Klemens Barfus, Michael Wagner, Niels Schütze and Hermann Laber for their paper titled "FIELD EVALUATION OF IRRIGATION SCHEDULING STRATEGIES USING A MECHANISTIC CROP GROWTH MODEL"* The paper was published in Vol 65, Issue 2 in 2016. The Best Paper Award in the form of 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: Road Map to ICID Vision 2030: Action Points of Editorial Board

11. The contributions of the Editorial Board to the Road Map to the ICID Vision 2030 will be to:

- devote one issue of IRD to the ICID Action Plan with invited papers from high level authors;
- publish at least 72 papers per year;
- publish one or two sponsored special issues per year;
- two working meetings per year with the publisher;
- increase the number of unique visitors to IRD's pages at the web site of Wiley – 2018: 42,000;
- increase the number of downloads of IRD papers – 2018: 25,000
- increase number of institutions with access to IRD via a Wiley License – 2018: 4500;
- increase number of low-cost or free access to current content to developing world institutions – 2018: 5000;
- improvement in the citation index (CI) and in the altimetric scorer (AC) – 2018: CI/0.7; AC 6%;
- to publish high quality papers in the journal *Irrigation and Drainage (IRD)* on new developments in irrigation, drainage and flood management

12. The progress in 2017 has been shown in the Agenda of the meeting. Basically, the progress has been better than the commitments made. However, it is considered to be a little early to raise the standards.

13. The proposed content of the special issue related to the Action Plan has been presented and discussed during the meeting. The Chairman will consult with the Chairman of the group that prepared the Action Plan to come up with the final contents for the special issue as above. Thereafter, the potential authors will be contacted.

EB-JOUR Minutes Item 3: Distribution of the Journal among the ICID membership

14. A total of 801 copies were distributed to members in 2017 i.e. 535 “Online-only” subscriptions, 140 subscriptions as “Online + print” and 126 as “print-only” subscriptions. The ‘Direct Members’ and ‘Young Professionals’ (receiving ICID scholarship) have been added to the list receiving ICID Journals.

15. The Chair informed that the ICID individual member subscription prices for 2018 will be *US\$ 48 online only and US\$ 59 online + print*.

16. The present Agreement with Wiley for the period 2014 – 2018 provides for:

- 5 free ‘online’ subscriptions and 5 ‘online + print’ subscriptions to National Committees;
- online access to work body members and office bearers;
- purchase of extra copies by National Committees;
- possibility of open access to papers, but the cost will be charged to the author.

EB-JOUR Minutes Item 4: Issues related with M/s Wiley-Blackwell

17. The following issues related with M/s Wiley-Bakewell were discussed:

- ORCID and POBLONS software have been installed which recognises the authors and the reviewers, respectively
- A guideline for reviewers has been made available;
- Information was provided on agreements on open access that recently have been agreed upon with various countries and organisations;
- M/s. Wiley has submitted a proposal for a new Agreement for the period 2019 – 2025 (7 years), or 2019 – 2023 (5 years). This proposal has been made in consultation with the Chairman and ICID Central Office.

The proposal is based on the same principles as the previous Agreements except the following:

- ICID individual member subscription prices will be in line with the 2018 prices;
- If ICID purchases at least 800 copies, all additional individual member subscriptions would be for free;
- Increase in royalty to ICID when certain thresholds (US\$ 150k) are crossed;
- The annual price increase will be smaller (1%) in case of a 7 year Agreement as compared to a 5 year Agreement (3%).

18. The proposal was presented and discussed during the meeting. The good experiences with the publisher were reviewed and appreciated. The meeting recommended the renewal of the Agreement with M/s Wiley, preferably for a tenure of 7 years.

EB-JOUR Minutes Item 5: Any other business

19. The meeting ended with thanks to the Chair.



**Minutes of the 26th Meeting of the
COMMITTEE ON PUBLIC RELATIONS AND PUBLICATIONS (C-PR&P)**

10 October 2017, 11.30-13.00 hours
Mexico City, Mexico

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 Bart Schultz (The Netherlands); (3) Dr. Vijay Labhsetwar represented Secretary General Avinash Tyagi.

Observers: (i) PH Peter Lee (UK); (ii) Xochitl Cisneros (Mexico); (iii) Emma Cano (Mexico)

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

C-PR&P Minutes Item 1: Action taken report by Chair

1. Chair welcomed the members and presented a report on the actions taken on the decisions held at its last meeting at Chiang Mai in November 2016.

C-PR&P Minutes Item 2: Road Map to ICID Vision 2030 - Activities of the workbodies

2. At Mexico meeting, the Committee reviewed the "Road Map to ICID Vision 2030", which provides new vision, mission, organizational goals, and strategies to put Vision into Action. The Committee also noted that the Working Groups have the pivotal role to play in putting the vision into action.

C-PR&P Minutes Item 3: Publications brought out and under processing during period 2016-17

3. During the meeting, the Committee noted that fifty-two issues of ICID e-Bulletin, 12 issues of News Update, 4 issues of the ICID News, and Annual Report for 2016-17 were published by the Central Office during the year and shared with National Committees and stakeholders.

C-PR&P Minutes Item 4: Report on ICID Journal

4. During the Mexico meeting, PH Bart Schultz presented a brief report of ICID Journal and summarized the status of the Journal and plans for a new contract with the publisher M/s Wiley. The Committee noted the brief report and plans for new contract and expressed its satisfaction.

C-PR&P Minutes Item 5: Knowledge dissemination using information and communication tools

5. Committee noted the important role of WG-CDTE which is studying a broader knowledge management strategy for ICID. Committee also noted that ICID and NCs need to work closely to integrate the national and international knowledge resources on irrigation and drainage that can be disseminated through ICID web site, NC web site (in local language), as well as emerging social media including LinkedIn, Facebook, Tweeter, etc.

C-PR&P Minutes Item 6: Review of the ICID Website

6. Committee informed that since there was no internet access available at the venue, the ICID Website could not be reviewed. However, members had seen the website earlier and expressed their satisfaction on the current stage of the website and thanked Mr Madhu Mohanan of the Central Office for the same.

C-PR&P Minutes Item 7: Any other business

7. Chair VPH Larry Stephens proposed the closure of the C-PR&P. The Chair informed the members about several factors for this action such as poor attendance at the Committee meetings, the excellent ICID Website now in place, the fact that the Journal reports directly to PCTA, and the fact that ICID no longer sells publications. After due discussion, the Committee respectfully requested that the Committee on Public Relations and Publications be closed with immediate effective. The members present concurred with the proposal.



**Minutes of the 1st Meeting of the
TASK FORCE FOR UPDATING AND MAINTENANCE OF
MULTILINGUAL TECHNICAL DICTIONARY (TF-MTD)**

10 October 2017, 14.00-15.30 hours
Mexico City, Mexico

Presented by the Chairman

Year of Establishment: 2015

Mandate: (a) to identify priority chapters and terms frequently referred/consulted by AWM professionals, (b) to consul/ 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

Members Present: (1) VP Ding Kunlun (China), Chair of PCTA; (2) Mr. Bernard Vincent (France) Chair of WG-SDRG; (3) Ms. Mary Jean Gabriel (South Africa) Chair of WG-IDM (4) Dr. Yu-Chuan Chang (Chinese Taipei) from WG-IOA.

Observers: (i) Dr. K.Y. Reddy (India); (ii) Dr. Takanori Nagano (Japan) from WG-PQW.

TF-MTD Minutes Item 1: Introduction of TF-MTD by the Chair

1. At the onset, Chair VP Ding Kunlun welcomed the members and provided a brief introduction about the mandate, scope of TF-MTD and the expected outcome of the Task Force ("TF" hereafter). Membership status is given in **Annex 7 (page 55)**.

2. During the meeting, Mr Bernard Vincent (France), Chairman, WG-SDRG wanted to know which language version be considered for update. TF Chair clarified that the current 5th edition (2010) of English language version may be taken as base document for update. Some members pointed out that the current edition of MTD available on ICID website only displays English version, while other languages like French, are not displayed so it would be difficult to update the corresponding definition for the same term in other languages. After deliberation, TF members agreed to focus on the possible update of the current English edition by checking the chapters and terms to see if any chapter/ terms need to be modified, new terms to be added, any term to be deleted as well as inclusion of any photos, diagrams, link etc.

3. Members may note that by default search for any term is displayed in English, however, user can see the 'French' terms by changing the language to 'French' from the drop-down options. Members may also note that registered members through 'Members Login', option can see the available terms chapter wise in all different available languages (Chinese English, French, Hindi (partially), Japanese and Russian). The terms other than English and French are as per the version different than the 5th edition (2010) and are not available in the format that could be synchronised with the existing website data for online searching.

TF-MTD Minutes Item 2: Technical Dictionary on AWM of Other Organizations

4. TF noted that other organisations have also similar technical dictionaries but in such dictionary (FAO's AGROVAC) there are no exact matches between ICID's MTD and AGROVOC definitions. TF also noted that while MTD has been developed over a significantly long period by experts, AGROVOC provides general definitions (as Scope Note for the term) for very few terms and relies heavily on other multilingual dictionaries (from different sources). Accordingly, TF recommend to undertake updation of relevant terms of MTD with the support of the relevant WGs.

TF-MTD Minutes Item 3: Process for updation of MTD

5. TF reviewed the categorisation assigned to chapters according to its relevance to the core areas of agriculture water management, irrigation and drainage as presented in table at Annex 2 (*page 159 of agenda of 68 IEC*) and broadly agreed with the prioritisation given in the agenda table. However, members suggested to discuss the issue within their respective WGs on the assigned chapters and agreed to provide feedback, if any. In turn, the members also agreed to go through the relevant chapters to check: (1) existing term definition, (2) any new term/ pictures to be added and, (3) any term(s) to be deleted.

TF-MTD Minutes Item 4: Translation of MTD in various local languages

6. TF noted that currently, MTD is available in few languages which include English, French, Chinese, Japanese, Russian and Hindi (*partially*) that too with terms translated in different editions of English terms. Some members expressed concern that by default it is available in English version for general user. TF suggested that ICID Central Office to make MTD version available in other languages to the users on ICID website.

7. Members may note that the translated terms in other versions are based on English terms from different editions of MTD. As such they cannot be loaded on the website in the same format as term numbers are unique and they will not match with the latest numbers of the terms. ICID CO has already requested National Committees of China, Iran, Russia, Japan, and Rep. of Korea to provide their database based on the 5th edition for uploading on website. This is the reason that the first step should be to bring down the size of MTD by choosing the chapters that are within the ICID expertise and deleting terms which are not relevant as noted in para 2.

TF-MTD Minutes Item 5: Dissemination and maintenance of MTD

8. In order to publicize the MTD, TF suggested ICID to get an e-version of other language versions of the MTD and upload it on the ICID website for its wider use and dissemination. The member may note that registered members can login the website <http://www.icid.org/ximlogin/login.php> and download/ search the technical terms related to their interest in the languages of English, Chinese, French, Japanese, Russian and Hindi (*partially*).

TF-MTD Minutes Item 6: Any other business

9. In order to discuss the issue of updation of MTD, it was proposed to hold a virtual meeting of the TF during November 2017.



**Minutes of the 6th Meeting of the
TASK FORCE ON VALUE ENGINEERING (TF-VE)**

11 October 2017: 13:30-15:00 hours (Session-I)
11 October 2017: 15:30-17:00 hours (Session-II)
Mexico City, Mexico

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 2012

Extended completion of the Mandate: 2017

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) Ir. Nor Hisham M. Ghazali, (Malaysia), Secretary; (3) Dr. Toshihiko Kuno (Japan); (4) Mr. Suman Sijapati (Nepal); and (5) Er. Harish Kumar Varma, Executive Director, ICID.

Observers: (i) Ir. Saheer Norouzi (Iran); (ii) Ir. Hidefumi Murashita (Japan); (iii) Ir. Yoji Imayoshi (Japan); (iv) Ir. Sung-Soo Bang (Korea); (v) Mohd. Adnan Ahmad Fanzi (Malaysia); and (vi) VPH I.K. Musa (Nigeria).

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 Chiang Mai (2016), Thailand. Membership status is given in **Annex 7 (page 55)**.

TF-VE Minutes Item 2: Publication of the TF-VE

2. TF Chair presented the general layout of the TF publication on VE entitled “Value Engineering Applications in Irrigation, Drainage and Flood Projects”, which was approved by the TF after discussion. Dr. Toshihiko Kuno (Japan) presented 5 case studies on Value Engineering of irrigation projects. (i) National Reclaim and Construct Project in South Kimotuski Area; (ii) Rehabilitation Project of Miyagawa Irrigation Area; (iii) Rehabilitation Project of Ryoutiku Plain Irrigation Area; (iv) Rehabilitation Project of Yahagi-Gawa Irrigation; and (v) Japanese National Irrigation and Drainage Project of So-Hokubu Area, which also indicate saving in cost due to application of value engineering. These case studies would be included in the TF publication. It was decided that the results of the application of VE in these case studies be circulated to the NCs and members of the TF for their comments/suggestions, if any. Chair pointed out that the draft version of the publication will be submitted to the ICID Central Office by the end of January 2018 for final editing. TF members are of the view that the VE has huge potential in saving cost of irrigation, drainage and flood projects and supporting goals of ICID Vision 2030.

TF-VE Minutes Item 3: Dissemination of information- Website

3. TF Chair requested members to provide material, document, reports, presentations etc. for uploading on TF website to enrich contents on the TF website. After discussion, it was agreed to upload the following documents on VE on the TF website: (i) Presentations of Training Workshop for Young Professional entitled “Value Engineering: An Effective and Efficient methodology for Enhancing irrigation, drainage and flood management projects”; (ii) Films on introduction to Value Engineering; (iii) Papers presented by the Chair in IDW in Ahwaz, Iran in 2017 entitled “Value Engineering for Unbiased Design”; (iv) The case studies of VE in

irrigation projects in Japan; and (v) Other presentations of the TF on VE. TF Chair will provide these documents to ICID CO for uploading on the TF web site.

TF-VE Minutes Item 4: Closure report of TF and Scoping Document for a new WG

4. TF Chair presented a Closure report and updated Scoping Document with the revised mandate for a new Working Group on Value Engineering (WG-VE) to PCTA. TF Chair was requested to send closure report to ICID CO for records and uploading on website of the TF. Revised mandate of the new WG-VE is as follows:

Mandate of the WG-VE

- (a) To motivate ICID National Committees in various countries to set up their National Working Groups.
- (b) To provide guidance to compile, publish, update and/or translate documents on Value engineering projects (irrigation, drainage, flood management, and river engineering);
- (c) To promote inter-disciplinary exchange of information, knowledge and experience, as well as networking on the topic;
- (d) To organize seminars at ICID Congresses and meeting to enhance awareness of importance of Value Engineering;
- (e) To prepare a paper on “Application of Value Engineering in Irrigation and Flood Projects” for publication in Irrigation and Drainage (IRD);
- (f) To finalize a book on Application of Value Engineering in Irrigation and Flood Projects”.
- (g) To encourage member countries to produce papers on Value Engineering case studies

5. PCTA, in its meeting held on 13 October 2017, advised ICID CO to circulate the scoping document to all the NC to seek their interest. The decision for the establishment of the WG will be taken during the 69th IEC after review of the interest received from the NCs.

TF-VE Minutes Item 5: Any other business

6. TF proposed to organize a workshop on “Application of Value Engineering in Irrigation and Flood Projects” during 69th IEC Meeting and International Conference to be held in August 2018 in Canada.

7. A half-day Training workshop for Young Professionals titled “Value Engineering: An effective and efficient methodology for Enhancing irrigation, drainage and flood management projects” was held on 13 October 2017 from 09:00-12:30 hours during the 68th IEC Meeting in Mexico. About 17 young professionals from Afghanistan, Australia; Canada; Ecuador; Egypt; Ethiopia; Finland; Ghana; Indonesia; India; Iran; Malaysia; Mexico; Morocco; South Africa; and South Korea participated. This workshop was an important event in promoting VE in ICID, particularly young professionals who are more interested in creativity and innovation.



**Minutes of the 2nd Meeting of the
TASK FORCE TO GUIDE ICID INPUTS TO 8TH WORLD WATER FORUM (TF-WWF8)**

12 October 2017, 17.00-18.30 hours
Mexico City, Mexico

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 2015

Completion of the Mandate: 2018

Mandate: (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) PH Dr. Chandra Madramootoo, Chair (Canada); (2) VP Dr. Ding Kunlun (China); (3) Mr. Ali Reza Salamat (Iran); (4) VPH Shinsuke Ota (Japan); (5) Gustavo Hinojosa – MXCID representative (Mexico); (6) PH Dr. Bart Schultz (The Netherlands);

Observers: (1) PH Gao Zhanyi (China); (2) Mr. Bernard Vincent (France); (3) Dr. Sanjay Belsare (India); (4) Mr. A.B. Pandya (India); (5) Marco Arcieri (Italy); (6) Hidefumi Murashita (Japan); (7) Yasunori Saiki (Japan); (8) Mamoru Watanabe (Japan); (9) Takeshi Kikutsuji (Japan); (10) Naoki Hayashida (Japan); (11) Mitsuo Ishijima (Japan); (12) Grisell Media Couna (Mexico); (13) Gustavo A. Hinojosa Cuella (Mexico); (14) Marcos Cerrillo Romero (Mexico); (15) Emma Cono (Mexico); (16) Patricia Herrera Ascencio (Mexico); (17) VPH Felix Reinders (South Africa); (18) Dr. Olcay Unver (FAO); (19) VP Ian W. Makin (IWMI).

TF-WWF8 Minutes Item 1: Action taken report by Chair

1. Chair PH Chandra Madramootoo welcomed the members and briefed them on the various activities of the TF viz. implementation of roadmap and inputs to 8th WWF, liaison with Brazil National Committee, 2nd Stakeholder Consultation Meeting in April 2017 etc.

2. The Task Force reviewed the nominations received from the World Bank for Mr. Ijsbrand H. de Jong and Dr. Ding Kunlun from the Chinese of National Committee (CNCID) for the membership of the Task Force. Nominations were approved by the Task Force. Membership status is given in **Annex 7 (page 55)**.

TF-WWF8 Minutes Item 2: Implementation of roadmap (IR) and inputs to 8th WWF

3. The Chair informed that ICID jointly with FAO and IWMI submitted a proposal to the WWC Scientific Committee to organize a session jointly on the topic "*Water for Food Security*" under the Theme "*Development – Water for sustainable development*". The FAO submitted the proposal as the Session Coordinator but there was no response from the Organizers as to whether the above session had been approved.

4. TF also noted that the Central Office had identified the topics that may be of interest to the ICID workbodies and invited Chairs of WG-CAFM, WG-CLIMATE, WG-CROP, WG-M&R, WG-IDM, WG-PQW, and WG-IOA to participate in the relevant sessions or organize a session in partnership with other organizations during WWF8 in March 2018. However, there has not been any response from these workbodies.

5. During the meeting, it was also agreed that ICID can participate with other organizations who have submitted proposals for other sessions such as the Themes on - Climate, Governance, and Efficient use of surface water and groundwater (Water for Sustainable Development), for example. PH Gao Zhanyi has suggested that ICID can, perhaps, participate in sessions being organized by various other member countries.

TF-WWF8 Minutes Item 3: Liaison with Brazilian National Committee (ABID) for preparatory work of 8th World Water Forum

6. PH Chandra Madramootoo informed about his recent visit to Brazil and his meetings with representatives of Brazil National Committee (ABID). TF noted that so far, ABID had not received any information about the organization of Sessions on Water for Food at WWF8. He clarified that ABID had not been asked for inputs to WWF8.

TF-WWF8 Minutes Item 4: Identify areas for ICID contributions to the Forum - Update

7. During the meeting, there was much discussion on the potential contributions that ICID could make to a Session on "*Water for Food*" and the Committee agreed that the following three areas could be considered on merit: basis (a) Soil and water conservation practices in watersheds for food production; (b) Building resilience in agricultural system to cope with climate extremes (*flood and drought*), and (c) Water productivity and water savings technologies.

8. Topic (b) was considered extremely important by the Latin American delegates and this topic will also help to increase Latin American participation in ICID and the WWF8. Topic (c) was felt to be consistent with the Declaration of the 23rd International Congress in Mexico City, as it aligns with Question 60.

9. Mr. Olcay Unver (FAO) mentioned that if the proposed session is accepted by the WWC Scientific Committee then the duration of the Session could be either 3 hours or 1.5 hours. It was proposed to plan for 3 hours session and if it is cut to 1.5 hours, then it could tighten the program. It was also expressed that session speakers should not make routine PPT presentations. Rather, they should think of a panel type discussion with specific questions on each of the 3 topics put to speakers. This will lead to more dialogue and an interactive discussion with the panel members.

10. ICID may invite potential speakers on each of the 3 above topics. Some names/ NCs were proposed as follows:

- (a) "Soil and water conservation practices in watersheds for food production" – Felix Reinders and SANCID; CNCID experience with the Yellow River; Ethiopia and Tigray Region.
- (b) "Building resilience in agricultural system to cope with climate extremes (*flood and drought*)" – Invitees from Latin America through the Mexican National Committee.
- (c) "Water productivity and water savings technologies" – IRNCID; CNCID; Japan National Committee

11. The Chair of the TF and Secretary General Avinash Tyagi will follow up with potential speakers, once there is confirmation from the Organizers about the proposed session.

TF-WWF8 Minutes Item 5: Brief report of 2nd Stakeholder Consultation Meeting, 26-28 April 2017, Brazil

12. The TF noted that a two-day Second Stakeholder Consultation Meeting of the 8th World Water Forum (WWF8) was organized from 26-27 April 2017 at Brasilia, Brazil. The event was organized as part of the preparatory process of the 8th World Water Forum to be held from 18-23 March 2018 at Brazil.

TF-WWF8 Minutes Item 6: Any other business

13. There was no other business and the meeting ended with thanks to the Chair.



**Minutes of the 22nd Meeting of the
WORKING GROUP ON USE OF POOR QUALITY WATER FOR IRRIGATION (WG-PQW)**

11 October 2017, 13.30-15.00 hours (Session I)
11 October 2017, 15.30-17.00 hours (Session II)
Mexico City, Mexico

Strategy Theme: On-Farm

Presented by the Chair

Year of Establishment: 1995

Extended completion of the Mandate: 2017

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) Dr. Wenyong Wu (China); (2) Vice President Hon. Dr. Karim Shiati (Iran); (3) Dr Anna Tedeschi (Italy); (4) Dr. Takanori Nagano (Japan); (5) Vice President Hon. Ragab Ragab (UK); (6) Dr. Vijay Labhsetwar represented Secretary General Avinash Tyagi.

Observers: (i) President Hon. Gao Zhanyi (China); (ii) Dr. Naresh Modi (India); (iii) Dr. Graziano Ghinassi (Italy); (iv) Dr. Marco Arcieri (Italy); (v) Dr. Akira Iwamoto (Japan); (vi) VP Bong Hoon Lee (Republic of Korea); (vii) Dr. Wonho Nam (Republic of Korea); (viii) Dr. Jisun Kim (Republic of Korea); (ix) VP Madhav Belbase (Nepal).

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

Note: VPH Dr. Ragab Ragab Chaired and conducted the meeting as Chair Dr. Samia El-Guindy (Egypt) was unable to attend Mexico meetings.

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. The Chair informed the Group that a Scoping Document for the new "Working Group on Non-Conventional Water Resources for Irrigation (WG-NCWRI) has been prepared by Dr. Anna Tedeschi (Italy) and Dr. Wenyong Wu (China) and finally revised by VPH Dr. Ragab Ragab (UK). The Scoping Document (SD) for WG-NCWRI will be presented to PCTA for approval. After approval, the activities of the WG as planned and documented in the SD will start prior to the next meeting in Saskatoon in 2018.

2. Two nominations, namely Dr. Seung Heon Lee (Republic of Korea) and Dr. (Ms.) Anna Tedeschi (Italy), were received. VP Bong Hoon Lee represented Dr. Lee and briefly introduced him. The group accepted the nomination of Dr. Seung Heon Lee as Provisional Member. However, Dr. Tedeschi was present and the Chair highlighted her academic qualifications, previous services to the group as its Secretary and her contributions in the field of non-conventional water resources. The group accepted her as a regular member. Membership status is given in **Annex 7 (page 55)**.

WG-PQW Minutes Item 2: Road Map to ICID Vision 2030 - Activities on use of poor quality water for irrigation

3. The group reviewed and discussed the Road Map to ICID Vision 2030. After deliberations on the action plan of the WG, the group informed that the SD prepared is in line with the vision of the "Road Map to ICID Vision 2030" and the planned activities of the new WG have been documented in the SD. The group felt that the activities of Non-Conventional Water Resources for Irrigation feeds into the vision of Goal A 7 and the activities of the WG that will focus on the use of waste water will contribute to the required information on practices for sustainable management.

WG-PQW Minutes Item 3: Publications of the working group

4. During the meeting, the group noted that due to non-availability of three papers, the Technical Paper of the WG is still pending for finalization. Therefore, it was proposed to request the Central Office to follow-up with Dr. Biswas, Dr. Vincent and Prof. Rensburg to send the final papers as their contribution to the Chair.

WG-PQW Minutes Item 4: Exchange of information, knowledge & networking - Website

5. VPH Dr. Ragab informed that in order to facilitate easy access to SALTMED course on the website of the ICID, a set of links were created to download the model and learn useful information to use it. He also informed the group that once the Technical paper is complete, it would be uploaded on the website as well. Nevertheless, the website is open to receive papers and useful information to be shared with the WG member and ICID members in general. The Chair invited all the members to send papers/ presentations/ reports to him by e-mail so that it can upload on the website for dissemination.

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

6. The Chair reminded that ICID Central Office makes available an online version of the Multilingual Technical Dictionary (MTD) through ICID website. Therefore, the Chair invited the members again to undertake the review of the concerned terminologies (*as per individual expertise*) and suggest modifications and/ or addition of new terminologies along with related illustrations, links and/or videos related to respective terminology. Dr. Takatori Nagano (Japan) reported that by searching a word on the MTD, only English version is available. However, Dr Vijay Labhsetwar explained that the user can see the 'French' terms by changing the language to 'French' from the drop-down options. Further, registered members can also see the available terms chapter wise in all available languages.

WG-PQW Minutes Item 6: Country presentations by members

7. Dr. Wenyong Wu (China) made a presentation on "*Behavior and risks of organic pollutants in reclaimed water irrigation (RWI)*" during the meeting. The group suggested to upload the presentation on the website of the WG.

WG-PQW Minutes Item 7: Special Session on Wastewater, Mexico, October 2017

8. VPH Dr. Ragab provided a brief report of the Special Session on "*Irrigation techniques for reuse of wastewater in agriculture and its impact on health and environment*" organized during 23rd Congress. It was pointed out that the wastewater generated by domestic, commercial, and industrial sectors, is normally used for crop production in an untreated or partly treated form. Further, a range of advanced wastewater treatment techniques were available to produce effluents suitable for agriculture production resulting in an additional source of water. However, the existence of such techniques is not enough to guarantee that proper application of treated effluent in agricultural irrigation occurs. For that, it is not only necessary to define irrigation water quality standards but also to evaluate whether such standards are met with the application of specific treatment techniques. With regard to the first aspect, several guidelines on water treatment were presented in two sessions of Special Session during the 23rd ICID Congress.

WG-PQW Minutes Item 8: Closure report and Scoping Document of the Working Group

9. The group discussed the draft Scoping Document for the establishment of the new WG. During the meeting, the Chair briefly presented several activities covered in the SD. The Chair also emphasized on how the current Nexus considers only the fresh water and it would be innovative for the WG to include NCWRI in the Nexus.

WG-PQW Minutes Item 9: Any other business

10. The acting Chairman informed the members that the Current Chair VPH Dr Samia El-Guindy has not been attending the meetings for last two years for various reasons and desired to step down from the Chairmanship of the WG. The members acknowledged her contributions as Chairperson since 2011 and as a member since 1999 and appreciated her efforts over the years.

11. As a consequence, the acting Chair opened the door for selecting a new Chair for which the former WG Secretary Dr. Anna Tedeschi was proposed as the new Chair. The Chair of the Italian National Committee Dr. Marco Arcieri addressed the WG in support of Dr Anna Tedeschi and endorsed her for new post and promised a continuous support over the years to come. Following this endorsement, Dr. Wenyong Wu (China) was proposed as the new Secretary of the WG given his contributions to the SD and his work which he presented during the meeting. He was also endorsed by President Hon. Gao Zhanyi who spoke highly of him. Both, the Chair and the Secretary were endorsed in favour by the group. The group wished both, the new Chair and the new Secretary all the best with the future directions envisaged in the SD.



**Minutes of the 2nd Meeting of the
WORKING GROUP ON SUSTAINABLE ON-FARM IRRIGATION
SYSTEM DEVELOPMENT (WG-SON-FARM)**

12 October 2017, 09.00-10.30 hours (Session I)
12 October 2017, 11.00-12.30 hours (Session II)
Mexico City, Mexico

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) Dr. A.K. Randev, Chairman (India); (2) Mr. Chris Norman (Australia) represented Mr. Carl Walters, Vice Chair; (3) Mr. Suman Sijapati, Secretary (Nepal); (4) Dr. Fuqiang Tian represented by Mr. Yao Bin (China); (5) Dr. Hossein Dehghanisanij (Iran); (6) Dr. Graziano Ghinassi (Italy); (7) Dr. Akira Iwamoto (Japan); (8) Prof. Chang Eon Park (Republic of Korea); (9) Mr. Bashu Dev Lohanee (Nepal); (10) Mr. Siboniso Phillip Mkhaliphi (South Africa); (11) Mr. Omer Faruk Akbulut (Turkey); (12) Dr. Chen, Ching-Tien (Chinese Taipei).

Observers: (1) Mr. Naseer Ahmed Fayez (Afghanistan); (2) Najumuddin Anjum (Afghanistan); (3) Momir Vranes (Australia); (4) Mr. Carlos Sanchez (Ecuador); (5) Mr. G. Paavan Kumar Reddy (India); (6) Mitsuo Ishijima (Japan); (7) Masayoshi Satoh (Japan); (8) Mamoru Watanabe (Japan); (9) Jaepil Cho (Republic of Korea); (10) Grisdda Medina (Mexico); (11) VPH Felix Reinders (South Africa); (12) S. Aydin Aytay (Turkey); (13) Yu-Chuan Chang (Chinese Taipei); (14) Pang-Chung Liu (Chinese Taipei).

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

WG-SON-FARM Minutes Item 1: Action taken report by Chair

1. At the onset, Chair Dr. A.K. Randev welcomed all members and presented a brief report on the actions taken as per the decisions of the first meeting of the WG held at Chiang Mai in November 2016. He highlighted upon the mandate of the WG in the light of Roadmap to ICID Vision 2030.
2. The Chair noted that no new nominations were received from the NCs during the year. Out of twenty-three, eleven members of the WG were present in the meeting while Mr. Yao Bin (China) was represented by Dr. Fuqiang. The Chair requested each member of the WG to provide their expertise/ field of specialisation either to randev26@rediffmail.com or sumansij@yahoo.com so that list of members can be updated accordingly for making further exchange among the members more effectively. Present status of membership of the WG is at **Annex 7. (page 55)**.

WG-SON-FARM Minutes Item 2: ICID Action Plan 2030 – Activities on sustainable on-farm irrigation

3. The WG reviewed action plan of the WG as per Roadmap to ICID Vision 2030 (Annex 2 of WG agenda, page 179 of 68th IEC agenda), as per mandate of the WG, and confirmed the same. As a part of action plan, WG successfully organized the internal workshop (*see item 7*) and received, in total, six papers consisting of 2 review papers, 2 thematic papers and 2 position papers.

WG-SON-FARM Minutes Item 3: Collection and collation of micro and sprinkler data

4. The Chair informed the members that the existing questionnaire “Survey of world-wide usage of sprinkler and micro irrigation” was revised by him and the former chair VPH Felix Reinders. The Chair requested members to access the website and provide the latest information in respect of data pertaining to their countries every year.

WG-SON-FARM Minutes Item 4: Publications of the working group**WG-SON-FARM Agenda Item 4.1: Article on “Improvement of the On-Farm Irrigation Systems Using Simple Water Control, Measuring and Application Devices”**

5. During the meeting, VPH Felix Reinders informed the group that the article “Improvement of the on-farm irrigation systems using simple water control, measuring and application devices” is under process and will be submitted soon to ICID for possible publication in the ICID Journal.

WG-SON-FARM Agenda Item 4.2: Paper on “Micro irrigation for smallholders and greenhouses”

6. VPH Felix Reinders informed the group that the paper “Micro irrigation for smallholders and greenhouses” is under process and will be submitted soon to ICID for possible publication in the ICID Journal. During the meeting, Dr. Hossein Dehghanisanij (Iran) also informed that the paper on “Micro irrigation under saline conditions” as part of the ICID Vision 2030 is under process and will be submitted by the end of the year 2017.

WG-SON-FARM Minutes Item 5: Dissemination of activities of WG**WG-SON-FARM Minutes Item 5.1: Web site of the group**

7. The group noted that the website of the working group <http://wg-on-farm.icidonline.org/> was updated with new membership list, agenda, minutes etc. The WG Chair requested all members to share information, knowledge & experience and provide papers, presentations, articles, reports etc. related to scope of the WG to ICID Central Office for uploading on the WG website for wider dissemination.

WG-SON-FARM Minutes Item 5.2: Webinar/ Web based seminar

8. WG Chair informed the members about the organization of the webinars by ICID Central Office during last one year and requested all members to suggest a few topics based on the mandate of the WG on which webinar can be considered. During the meeting, VPH Felix Reinders suggested name of Dr. Graziano Ghinassi (Italy) as one of the expert to make presentation through webinar. Dr. Ghinassi also agreed to take further action in the matter in consultation with the ICID Central Office.

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

9. WG discussed about updating of MTD and after discussion, the Chair requested members to undertake the review of the concerned terms depending on their domain of expertise and suggest changes / modifications and additions of new term(s), if any along with pictures, links and videos related to respective term(s). However, due to paucity of time, nominating a suitable professional for TF-MTD was not discussed by the group.

WG-SON-FARM Minutes Item 7: Internal workshop on “Sustainable On-farm Irrigation Systems for Higher Crops’ Productivity”, October 2017

10. The WG organized an internal workshop on the theme “Sustainable on-farm irrigation systems for higher crops’ productivity” during the WG meeting with the objective to discuss and share the experiences and knowledge on on-farm irrigation (*as part of ICID Vision 2030*). In total, following six papers were presented:

A. Review papers:

1. “Sustainable On-farm Irrigation System Development” (Suman Sijapati)
2. “On-farm irrigation systems and crops’ productivity in the light of National Water Policy - Indian Perspective” (Dr. A. K. Randev)

B. Thematic papers:

3. "Saving Water in Northern Victoria, Australia: Farm Water Program - Objectives, Learnings and Successes" (C. Walters, M. McFarlane, G. Mason, C. Nicholson, and D. Lawler) (*presented by Chris Norman*)
4. “Sustainable Technology to Save Energy During Travelling Sprinkler Irrigation” (Graziano Ghinassi and Francesco Garbati Pegna)

C. Position papers:

5. “A study on irrigation management practice strategies of paddy rice during drought period in Taiwan” (Ching-Tien Chen, Yu-Chuan Chang, Ming-Feng Yang and Jie-Ming Huang) (*presented by Yu-Chuan Chang*)
6. “Sustainable on-farm irrigation systems in Afghanistan: Current challenges and future needs” (Mohammad Asif and Najmuddin Najam) (*presented by Najmuddin Najam*)

11. The presentations were followed by discussions which were responded by the respective presenters. On behalf of ICID Central Office, Dr. Vijay Labhsetwar introduced Mr. Chris Norman (Australia) winner of ICID WatSave Technology Award 2017. The presentations of the internal workshop along with the proceedings were submitted to ICID Central Office in soft copy for uploading on WG web site.

WG-SON-FARM Minutes Item 8: Updates on 9th International Micro Irrigation Conference, January 2019, Aurangabad, India

12. The Chair informed about the organization of 9th International Micro Irrigation Conference by Indian National Committee on Surface Water (INCSW) in January 2019 in India. WG will provide technical guidance for organizing the above conference. The Chair requested all members of the WG to actively contribute to the 9th IMIC by submitting abstracts/ papers to the conference.

WG-SON-FARM Minutes Item 9: Any other business

13. The Chair thanked all the members with expectation of timely response of each member as per each one's expertise.



**Minutes of the 10th Meeting of the
WORKING GROUP ON WATER AND CROPS (WG-WATER & CROP)**

12 October 2017, 13:30-15:00 hours (Session-I)

12 October 2017, 15:30-17:00 hours (Session-II)

Mexico City, Mexico

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), Chairman; (2) VPH Laurie C. Tollefson (Canada), Vice-Chairman; (3) Dr. Kaluvai Yella Reddy (India), Secretary; and (4) Dr. Marco Arcieri (Italy)

Observers: (i) Ir. Wang Haili (China); (ii) Ir. Wang Shaohr (China); (iii) Prof. Won-Ho, Nam (Korea); (iv) Dr. Anne Teoleslhi (Italy); (v) Dr. Hossein Dehghanisanij (Iran); and (vi) Dr. Graziano Ghinassi (Italy)

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 on the decisions and proposals made at its last meeting in Chiang Mai, Thailand in November 2016.

2. The Korean National Committee on Irrigation and Drainage (KCID) nominated Prof. Won-Ho Nam (Korea) for the membership of the WG. Prof Nam introduced himself to the group and was formally accepted as a member of the WG. During the meeting of the WG, it was noted that the provisional members (5) of the group have not been contributing to the activities of the WG and hence recommended their membership to be discontinued. The concerned NCs and other NCs of ICID may be invited to nominate new members. Membership status is given in **Annex 7 (page 55)**.

WG-W&C Minutes Item 2: Road Map to ICID Vision 2030: Activities on efficient use of water in crop production

3. The Chair informed the purpose of draft Action Plan 2030 of the WG and importance of the **Goal 1**: Enable higher crop productivity with less water and energy (*1.1 Develop guidelines on efficient use of water in crop production*) and its relevance to the activities of WG. Action Plan for WG-WATER & CROP, as given in the **Annex**, was discussed thoroughly, reviewed for importance of each activity, set milestones for various activities and actions to achieve the outcomes.

WG-W&C Minutes Item 3: Multi-functionality of water use in paddy (Rice) cultivation

4. Chairman informed the members about the earlier decision of the Working Group to bring out a 'Technical Report' based on papers contributed by its members in areas such as: (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.

5. NCs of China, Indonesia and Philippines have contributed their papers for the 'Technical Report' of the WG. Further, the ICID Central Office requested the members/NCs from Korea, Thailand and Taiwan to contribute their papers in the area of 'Multi-functionality of water use in paddy (Rice) cultivation' in their countries for enriching the 'Technical Report' of the working group. Dr K Y Reddy (India) informed that the draft document on '*Efficient Use of Water in Crop Production*' prepared by him has been submitted to the Chair. The Chairman advised the Secretary of the WG to send reminder mails to Dr. Graziano Ghinassi (Italy) and Dr. Leon van Rensburg (South Africa) requesting their reports.

WG-W&C Minutes Item 4: Publications of the Working Group

6. WG discussed to publish a Special Issue of IRD Journal of selected best papers from the past WG organised International Workshops but dropped the idea due to high costs involved in producing a special Issue. However, few selected papers may be submitted for publication to the IRD Journal.

WG-W&C Minutes Item 5: Updating Multilingual Technical Dictionary (MTD)

7. The group discussed about updating of MTD. However, since Dr. P. Soman (India) was not present in the meeting, the progress could not be reported. It was decided to remind Dr. Soman to complete the task. All the other members were encouraged and requested to take-up the relevant parts for updating.

WG-W&C Minutes Item 6: Issues related with Water-Energy-Food-Nexus**WG-W&C Minutes Item 6.1: International Workshop in August 2018 at Saskatoon, Canada**

8. The group discussed the issue of organizing an International Workshop/Seminar titled “*Improving the Water Use Efficiency within the Water-Energy-Food-Nexus*” during the 69th International Executive Council (IEC) meeting and International Conference in August 2018 at Saskatoon, Canada. VPH Laurie Tollefson (Canada) will leave for inclusion of the workshop in the program of the conference. It was elaborately discussed and recommended to change the title of the workshop to “*Improving the Water Productivity within the Water-Energy-Food-Nexus*”. The following deadlines were set for conducting the workshop successfully:

- | | | |
|-----------------------------------|---|-------------------|
| (i) Call for Papers | : | December end 2017 |
| (ii) Extended Abstract submission | : | February 2018 |
| (iii) Acceptance & Communication | : | April 2018 |

WG-W&C Minutes Item 6.2: ICID-IWRA Collaboration

9. The WG discussed about the joint activities with ICID-IWRA collaboration, such as: (i) jointly organizing the Seminar mentioned in Item 6.1 and (ii) bring out a Special Issue of the selected papers from the International Workshop with financial support from IWRA.

WG-W&C Minutes Item 7: Dissemination of activities of WG**WG-W&C Agenda Item 7.1: Website of the Group**

10. The Chairman informed that the website of the WG has been updated. The members of the Group were requested to contribute to enrich the website. Dr Reddy (India) informed of some of their publications from ‘ClimaAdapt Project’ which may be relevant to the work-body activities. Dr. Reddy agreed to provide the soft copies of (i) Policy briefs and (ii) Water education: schools and Colleges for uploading on the webpage of WG.

11. WG Chair informed that the SALTMED, developed as part of Water4Crops project online distant learning course, was uploaded and can be accessed at WG website: <http://wg-crop.icidonline.org/> and Forum website: www.saltmed.createaforum.com.

WG-W&C Agenda Item 7.2: Web-based Seminar/e-discussions

12. During the WG meeting, Chair encouraged the members to use the platforms such as e-discussions, web-based seminars on the relevant topics based on the mandate of the WG. The Chair requested the members to come forward and develop a ‘Concept Note’ and actually conduct the webinars/e-discussion in 2018 in the area of their specialization. Dr Reddy was requested to co-ordinate and prepare the action plan.

13. WG Chair further informed the members that for discussions among the members during the year, ICID provides a free platform of webEx online meetings. The members appreciated the development and decided to use this facility in 2018.

WG-W&C Minutes Item 8: Any other business

14. The Chairman informed the members about the latest developments made in the field of estimation of crop water requirement from the actual field data. He made presentations on the following two topics:

- (i) Improving Irrigation and Drainage Efficiency Using Eddy Covariance and Scintillometry Technologies;
- (ii) Estimation of Crop Water Requirement Using the Cosmic-Ray Soil Moisture Observation System (COSMOS).

15. WG Chair explained the use of these methodology for different fields related to hydrology aspects. The house appreciated the contributions made by the Chair and thanked him profusely.

16. The chair requested the members to prepare presentations on suitable topics emerging from+ the mandate for the future workbody meetings.



Annex [Appendix Item XXVI, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-WATER & CROPS

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Resolution Lead Person
Goal A: Enable higher crop productivity with less water and energy							
Strategy 5: Supporting water productivity enhancement	5.3 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	Merge Item 5 and B1. Dr Marco Arcieri (Italy)
Goal B: Be a catalyst for change in policies and practices							
Strategy B1: Supporting Development of Appropriate Policies	1.13 Technical Report on Efficient Use of Water in Crop Production	Report	Prepare the first draft report for discussion	Release the second draft report	Finalise the draft report	To publish it	Dr Marco Arcieri (Italy)
Goal C: Facilitate exchange of information, knowledge and technology							
Strategy C3: Promoting Regional Cooperation	3.2 International Workshop/seminar on 'Improving Water Productivity in the frame work of Water Energy Food Nexus'	Workshop proceedings	Announcement of workshop	Orgnaising Workshop in Canada	Publication of papers in the Special Issue of the Journal		VPH Laurie C Tollefsen (Canada)
Goal D: Enable cross disciplinary and inter-sectoral engagement							
Strategy D2: Developing Technical Documents in Non-technical Language	2.2 Crop – Water- Energy Nexus	Technical Report		Workshop		Workshop	Dr K Y Reddy (India)
Goal E: Encourage research and support development of tools to extend innovation into field practices							
Strategy E2: Strengthening Extension Services with AWM information							Dr Nader Heydari (Iran)
Strategy E3: Developing and Promoting Tools of AWM	3.1 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		Dr Ragab Ragab
Goal F: Facility Capacity Development							
Strategy F3: Technical Training of Young Professionals from Member countries	3.9 Training on Crop Water Models Aqua Crop	Conduct Training workshops	Training workshops		Training workshops		All Members are responsible.

**Minutes of the 2nd Meeting of
WORKING GROUP ON IRRIGATION DEVELOPMENT AND MANAGEMENT (WG-IDM)**

11 October 2017, 13.30-15.00 hours (Session I)
11 October 2017, 15.30-17.00 hours (Session II)
Mexico City, Mexico

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 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); (f) drivers for and resistances at system level to improve irrigation management; (g) social issues to be considered along with technical and economical ones; (h) management of multi-use hydraulic systems, and interdependence between uses; (i) performance evaluation of irrigation schemes and benchmarking; (j) ways towards economical performance enhancement (cost reduction and efficiency improvement).

Member Present: (1) Ms. Mary Jean Gabriel, Chair (South Africa); (2) Dr. Katsuyuki Shimizu, Secretary (Japan); (3) Dr. Ming-young Jan (Chinese Taipei); (4) Mr. Mukhlis Zainol Abidin (Malaysia) represented Ir. Mat Hussin bin Ghani; (5) Er. Harish K Varma represented Secretary General Avinash Tyagi.

Permanent Observer: VP Ian Makin (UK)

Observers: (i) Mr. Najumuddin Anjum (Afghanistan); (ii) VP Ding Kunlun (China); (iii) Mr. Ephraim Sekyi-Annan (Ghana); (iv) Dr Narges Zohrabi (Iran); (v) Mr. Takeshi Kikutsuji (Japan); (vi) Mr. Mitsuo Ishijima (Japan); (vii) Ms. Mu Mu Than (Myanmar); (viii) Mrs. Oluniyi Esther Oyeronke (Nigeria); (ix) Mr. Olufemi Odumosu (Nigeria); (x) Dr. Ado K. Abdullahi (Nigeria); (xi) Mr. Michael I Nwabufo (Nigeria); (xii) Mr. Olayiwola Baruwa (Nigeria); (xiii) Ms. Monaliza F. Delos Reyes (Philippines); (xiv) VPH Felix Reinders (South Africa); (xv) Mr. Siboniso Mkhali (South Africa), (xvi) Dr. A. Senzanje (South Africa).

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

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

1. Chair welcomed the members and presented a report on the actions taken on the decisions and proposals of the working group at its last meeting held at Chiang Mai in November 2016.
2. Egyptian National Committee (ENCID) nominated Eng. Mohammed Omar Makram Afify – a Young Professional and the Pakistan National Committee (PANCID) nominated Mr. Tariq Altaf for the membership of the group. Both the nominations were provisionally accepted as they were not present during the Mexico meeting. Membership status is given in **Annex 7 (page 55)**.
3. Member from Iran viz. Mr. Mohammad Kazem Siahi and provisional members from Iraq have not contributed to the activities so the group recommended to discontinue their membership and invite new nominations. Dr Narges Zohrabi (Iran) is currently a member of WG-IDM so a new member would be invited from Iraq National Committee as well as from other NCs.

WG-IDM Minutes Item 2: Road Map to ICID Vision 2030 - Activities on irrigation development and management

4. During the meeting, the WG reviewed the Road Map to ICID Vision 2030 and felt that the timeline for achieving various milestones and activities under action plan for the WG need to be modified keeping in view the revised scope and mandate and availability of resources. Accordingly, WG modified its action plan as well as assigned certain tasks to its members (refer **Annex**).
5. Chair reiterated that the group need to focus on the approach of water balance in irrigation with the objective to develop appropriate guidelines in this respect, as per discussion during Chiang Mai meeting. The group also decided 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).

WG-IDM Minutes Item 3: Presentation by the working group members

6. During the meeting, three presentations were made by the members *viz.* (i) "Irrigation development and management in Japan" by Secretary Dr. Katsuyuki Shimizu (Japan); (ii) "Water + Power: Floating solar power system - Agondian reservoir, Southern Taiwan" by Dr. Jan Ming-Young (Chinese Taipei); and (iii) "Efficient irrigation by applying a water balance" by VPH Felix Reinders (South Africa). These presentations have been uploaded on the WG website.

WG-IDM Minutes Item 4: Exchange of information, knowledge & networking**WG-IDM Minutes Item 4.1: Website of the WG**

7. 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 on the topic in order to be up to date with new developments, methods and approaches. Members were also requested to provide interesting articles/ papers/ presentations/ documents related to the mandate of the WG-IDM from the respective countries and National Committees for uploading it on the ICID website http://www.icid.org/wg_idm.html.

WG-IDM Minutes Item 4.2: Webinars/ Web based seminars

8. The group discussed about organization of webinar and noted that the first webinar held on 1 March 2017 was presented by VPH Felix Reinders on the topic "Water Use Efficiency". Chair requested members to suggest topics for webinars to be organised during 2018 so as to share knowledge and experience with other professionals within and outside ICID fraternity.

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

9. During the meeting, the WG discussed about updating of MTD and after discussion WG identified the following chapters: (5) Head works; (6) Design of irrigation canals; (7) Canal structures; (8) Project water management; (17) Operation, maintenance and management, which relate to mandate of the WG. Dr. Katsuyuki Shimizu, Secretary of the WG also volunteered to take up the task of updating the MTD at the meeting.

WG-IDM Minutes Item 6: Brief report on "Water accounting for agriculture" – Dr. Amgad Elmahdi

10. In absence of Dr. Amgad Elmahdi (Australia) at Mexico meeting, the item on water accounting for agriculture was not discussed by the group. However, the members may note that Food and Agriculture Organization (FAO) organized an online discussion on "Water Accounting & Water for Food" from 9 June to 21 July 2017 in which ICID and several of its stakeholders participated actively. This discussion was organised as part of the World Water Council (WWC) Members' initiative on water accounting for decision making in the agricultural sector facilitated by FAO. The main objective of the initiative was to raise the awareness on the relevance of water accounting for decision making and planning and gather evidences and experiences through a process consisting of expert consultations and policy level interactions.

11. Some water accounting examples from around the world were also shared during the discussion and in the middle of the 6-week discussion ICID organized a Webinar in July 2017 on Australian experiences of water accounting and its use in national water management delivered by Dr. Amgad Elmahdi (Australia). The Webinar was very well attended by both ICID members and the participants of the above FAO online discussion. In addition, similar webinars on water accounting were delivered by Dr. Gonzalo E. Espinoza (UNESCO-IHE) in Spanish and Dr. Yasir A. Mohamed (UNESCO-IHE) in Arabic.

12. As a follow up of the above discussion, WWC members including ICID, have started the development of a White Paper on Water Accounting for planning and decision making in agricultural management. Considering the potential utility of Water Accounting as a policy development tool, ICID is also engaged in developing a detailed position paper, based on the ICID work on water balance approach over the last several years and its ongoing activities, for sharing with NCs as well as international partners including WWC and FAO.

WG-IDM Minutes Item 7: Workshop on water balance approach, 2018

13. WG noted that as per action plan of the WG, a Workshop on Water Balance Approach and how to conceive guidelines is proposed during the year 2018. However, due to paucity of time no decisions were made on this matter and it was agreed to discuss matter further in next meeting of the WG through web ex or in the meeting at Saskatoon.

WG-IDM Minutes Item 8: Any other business

Annex [Appendix XXVII, Item 2]

ROAD MAP TO ICID VISION 2030 – ALLOCATION OF TASKS

Goal/ Strategies	Activities	Outcomes/ Outputs	Responsible person
Goal A: Enable higher crop productivity with less water and energy			
A1. Strategy: Modernizing irrigation systems	1.1 Develop a program for introducing standards for irrigation systems	Standards for Irrigation and Drainage	Dr Ming-Young Jan / Ms M J Gabriel
	1.2 Report or case studies on recent development in Irrigation Drainage Management	Case studies Presented in WG meetings	Dr Narges Zohrabi
A6. Strategy: Improving performance of irrigation systems	6.1 Investigating and providing information on the positive amenities, services and goods provided by irrigation systems (in consultation with WG-ENV)	Technical Report	Dr Shimizu
	6.7 Identify drivers and social resistances within the systems to improve Irrigation management	Report	TBD
Goal B: Be a catalyst for change in policies and practices			
B1.Strategy: Support development of appropriate policies	1.14 Report on South-South cooperation for capacity development in the field of irrigation management	Report	TBD
B3. Strategy: Integrated Irrigation and Drainage Management	3.1 Assess methods and develop guidelines on relevant water balance approach	Guidelines	Mr Ian Makin (to assist)
Goal C: Facilitate exchange of information, knowledge and technology			
C1.Strategy: Providing knowledge sharing platform for AWM professionals	1.3 Organize Workshop, Seminar and Symposium on Water Balance Approach	Proceedings	TBD
C4.Strategy: Compile, Collate and Share Knowledge and Experiences	4.9 Condensed overview of existing documents and practical examples on water balance approach	Technical Report	Ms MJ Gabriel
	4.17 Overview paper on the Irrigation Development for publication in Irrigation and Drainage (IRD)	Technical Paper	TBD
Goal D: Enable Cross Disciplinary and Inter-Sectoral Engagement			
D2. Strategy: Developing Technical Documents in Non-technical Language	2.3 Investigating and documenting the social and economic impacts of irrigation systems	Technical report	TBD
Goal E: Encourage research and support development of tools to extend innovation into field practices			
E6. Strategy: Dissemination of useful research outputs	6.2 Investigate and report on state of research, barriers or locks and promising paths in the field of irrigation management	Technical report	TBD



**Minutes of the 3rd Meeting of
WORKING GROUP ON INSTITUTIONAL ASPECTS OF IRRIGATION/ DRAINAGE
SYSTEM MANAGEMENT (WG-IOA)**

12 October 2017, 13.30-15.00 hours (Session I)
12 October 2017, 15.30-17.00 hours (Session II)
Mexico City, Mexico

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) VPH Dr. Hafied A. Gany, Chairman (Indonesia); (2) Dr. Kazumi Yamaoka, Vice Chairman (Japan); (3) VP Madhav Belbase, Secretary (Nepal); (4) VP Ding Kunlun (China); (5) Mr. Hasan Basri Yuksel (Turkey); (6) Dr. Yu-Chuan Chang (Chinese Taipei); (7) Er. Harish K. Varma represented Secretary General Avinash Tyagi.

Observers: (i) Wang Haili (China); (ii) Narges Zohrabi (Iran); (iii) Dr. Sanjay Belsare (India); (iv) Yoji Imayoshi (Japan); (v) Hidefumi Murashita (Japan); (vi) Mamoru Watanabe (Japan); (vii) VPH Shinsuke Ota (Japan); (viii) Omer Faruk Akbulut (Turkey); (ix) S. Aydin Aytag (Turkey); (x) Pang Chung, Liu (Chinese Taipei).

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

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

1. Chair VPH Dr. Hafied Gany welcomed the members and provided a brief update on the actions taken on the decisions and proposals of the working group at its last meeting held at Chiang Mai in November 2016. Chair also provided a brief information about the organization of the International Symposium viz. summary of papers, submission of country papers and the proceeding of the Symposium in electronic format (see item 6 for more information).

2. The group reviewed the nomination of Dr. Qazi Tallat Mahmood Siddiqui proposed by Pakistan National Committee (PANCID) for the membership of the group and was provisionally accepted since he was not present during the Mexico meeting. Membership status is given in **Annex 7 (page 55)**.

WG-IOA Minutes Item 2: Road Map to ICID Vision 2030 - Activities on institutional and organizational aspects of irrigation

3. The WG discussed and reviewed the Action Plan for WG-IOA (**Annex 2 of Agenda – page 198 of 68th IEC**) and broadly agreed with it. However, members agreed for continued consultation among themselves to develop activities and milestones for strategy A8 and discuss further steps to be taken to achieve the intended outcomes as per action plan. Members also agreed to consult with other working groups so as to avoid duplication of the activities and getting their support to achieve intended outcome/outputs of the WG. According to the scheduled activities, the WG organized an International Symposium in the year 2017 and proposed to bring proceeding of the Symposium as electronic version (*activity C 1.7 “Organize workshop, seminar and symposium”*).

WG-IOA Minutes Item 3: Presentation by the working group members

4. At the Mexico meeting, the Chair discussed and encouraged members to make presentation in the upcoming meeting of WG-IOA, or else they may send information through the Dropbox for sharing with others.

WG-IOA Minutes Item 4: Dissemination of activities of WG

5. The Chair encouraged members to post and disseminate their activities through Dropbox or website in consultation with the Chairman, Vice Chairman and Secretary.

WG-IOA Minutes Item 4.1: Website of the group

6. 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 on the topic in order to be up to date with new developments, methods and approaches. Chair also encouraged members to provide interesting articles/ papers/ presentations/ documents related to the mandate of the WG from their respective countries and National Committees for uploading it on the ICID website http://www.icid.org/wg_ioa.html.

WG-IOA Minutes Item 4.2: Webinar/ Web based seminar

7. The group discussed about organization of webinar to share vast expertise available with ICID fraternity among members of the NCs with the support of WG experts. Chair encouraged members to participate in the Webinar/ Web based seminar and also requested them to suggest topics along with name of experts to ICID CO and him who can be consulted to deliver webinar.

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

8. The Chair informed the members that during the Chiang Mai meeting, the group nominated Dr Yu-Chuang Chang (Chinese Taipei) as a nodal person on behalf of WG to undertake the task of updation of MTD. Dr. Yu-Chuang Chang represented the WG-IOA in the meeting of TF-MTD at Mexico and informed that updation of MTD will be gradually conducted and evaluated in accordance with the terms used in each working group. WG Chair requested members to undertake updation of MTD terms related to mandate of the WG.

WG-IOA Minutes Item 6: Report on International Symposium on “Global review of institutional reform in irrigation sector for sustainable agriculture water management, including WUA”, 8 October 2017

9. Chair provided a brief updates about successful organization of the International Symposium on “Global review of institutional reform in irrigation sector for sustainable agriculture water management, including WUA” at Mexico attended by about 150 participated. During symposium in addition to presentation of 9 country papers by the NCs, two key note addresses were also delivered by experts from the World Bank viz. (1) Mr. Remi Tiers on the topic “Assessing and supporting irrigation service improvement, past and future”; and (2) Mr. Steven Hotsgon on the topic “Legal framework for sustainable and effective water users organization”. Based on the presentations, the general conclusion are as follows:

- (i) Each country has a variety of institutional arrangement for irrigation development and management and hence no generalization of the institutional arrangements can be made;
- (ii) It is necessary to adopt a sound legal framework to consolidate management transfer to water users;
- (iii) Providing food supply for 9 billion inhabitants globally in the future will be a biggest challenge so there is need to take action to increase the productivity of water use for irrigation;
- (iv) It is necessary to consider physical limit, and hence to seek new participation schemes for public, private partnership (PPP).

10. Group discussions on three topics (i) Legal Framework and organizational structure including WUA for Water Supply Services, (ii) Participatory Irrigation Management and Management Transfer - Approaches and condition for successful PIDM, and (iii) Public–Private–Partnership (PPPs) in Irrigation and drainage operation and maintenance toward sustainable Irrigated agricultural water management were also organised as part of the symposium. Conclusions and recommendation emerging from three group discussions are as follows:

11. **Group 1 on Legal Frameworks:** (i) The roles, duties and responsibilities of the parties that are involved in IOA of Irrigation and drainage should be clarified to avoid complication in coordination; (ii) Participation of small farming in terms of capacity to make a living from their farming condition should be unified to avoid complication on the working condition; (iii) Payment for O&M Costs should only be focussed on operation and maintenance costs,

and not for others; (iv) All of the environment costs related to O&M should be recovered for environmentally friendly application; and (v) All the legal aspects of I&D for O&M need clarification in terms roles and responsibilities.

12. **Group-2 on Participatory Irrigation Management (PIM):** (i) The decision making aspects related with Participatory Irrigation Management should cover the planning, design and Operation and Maintenance aspects; (ii) The process of PIM should be conducted in line with the overall process of irrigation development participation of WUA, without isolating one process with other process (such as development); (iii) The required time for WUA participation should not be limited to a short time period before the WUA could conduct their participation independently (The Japanese case is 5 years on the average); (iv) The implementation of PIM should not be influenced by political problems (many cases of PIM in the past were not successful because of political involvement in construction process); and (v) Problems of small land ownership must be specially considered for PIM in line with the capacity of the farmer to make a living and hence participation.

13. **Group-3 on Public Private Partnership – PPP:** (i) The definitions of PPP are very complex and varies from one institution to another – so these definitions must be clarified with clear examples to avoid differentiations; (ii) Promotion of high value crop varieties among farmers is necessary and should be done with care and clear example of the prospective and additional income by the farmer so that they can pay for water service fee; (iii) Implementation of PPP needs to be demonstrated with concrete examples to convince and attract the younger generation in farming activities so as to replace the older and aging farmers (this is particularly related with expertise to conduct continuous training and education for practical farming practices); (iv) There is need to clearly demarcate risks, role and responsibilities of private and public sectors for implementation of PPP to gain profitable incentive for the participation of the private sector– for example clear and concrete example of government and private sectors in PPP; including the more clarity on tax regulations and performance indicators for the private sector involvement in PPP.

14. The proceedings of the Symposium including combined summary of country papers/ case studies as well as full papers will be published in soft version and perhaps in the ICID Journal.

WG-IOA Minutes Item 7: Any other business

15. WG Chair Dr. Hafied Gany informally discussed the organization of International Workshop on the theme “Institutional and Organizational Setup of Irrigation and Drainage Management System based on the Size of Land Holding, Level of Agricultural Income and Technology Practices toward Sustainable Agriculture Water Management” during 69th International Executive Council (IEC) in August 2018 in Saskatchewan, Canada who agreed to the proposal. WG Chair will submit the proposal for organization of an international workshop to ICID Central Office for consideration by the Organizing Committee of 69th IEC.

16. The Chairman presented the overall information about the activities and conclusion of the WG-IOA symposium. The meeting ended with vote of thanks.



**Minutes of the 3rd Meeting of
WORKING GROUP ON MODERNIZATION AND REVITALIZATION OF
IRRIGATION SCHEMES (WG-M&R)**

12 October 2017, 09.00-10.30 hours (Session I)
12 October 2017, 11.00-12.30 hours (Session II)
Mexico City, Mexico

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) VP Ian Makin, Chairman (UK); (2) Dr. Dong Bin, Vice Chairman (China); (3) Engr. M.S. Bala, Secretary (Nigeria); (4) Ir. Eko Subekti (Indonesia); (5) Dr. Yohei Sato (Japan); (6) Dr. Kwang-Sik Yoon (Korea, Rep.of); (7) Mr. Mukhlis Zainol Abidin (Malaysia) represented Mr. Mohd Yazid bin Abdullah; (8) Dr. Brian T. Wahlin (USA).

Permanent Observer: Dr. Olcay Unver (FAO)

Observers: (1) Ms. Adey Nigatu Mersha (Ethiopia); (2) Dr. Sanjay Belsare (India); (3) Dr. K.Y. Reddy (India); (4) Haeruddin Cebba Maddi (Indonesia); (5) Syaiful Mohd (Indonesia); (6) Mochammad Amron (Indonesia); (7) Soekransno (Indonesia); (8) M. Adrie Azhari (Indonesia); (9) Patricia Mejias - from FAO (Italy); (10) VPH Shinsuke Ota (Japan); (11) Takesh Kikutsuji (Japan); (12) Shinji Fukuda (Japan); (13) Victor M. Ruiz C (Mexico); (14) Mu Mu Than (Myanmar); (15) Eng. M.I. Misau (Nigeria); (16) VPH I.K. Musa (Nigeria); (17) Sen Muhammad Shitu (Nigeria); (18) Dr. Ado K. Abdullahi (Nigeria); (19) Mona Liza F. Delos Reyes (Philippines); (20) Simoniso Mkhalihi (South Africa); (21) Co-Ying Chien (Chinese Taipei); (22) Hsu, Nam-Shan (Chinese Taipei); (23) Lin, Seng-Hsin (Chinese Taipei); (24) Lin Kun-Hsien (Chinese Taipei); (25) Mei Chang Chan (Chinese Taipei); (26) Tan, Chih-Hung (Chinese Taipei); (27) Tsai, Min-Shian (Chinese Taipei); (28) Tran Chi Trung (Vietnam).

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

WG-M&R Minutes Item 1: Action taken report by Chair

1. At the onset, Chair welcomed members and provided a brief summary of activities during the year to facilitate the preparation of case studies which were presented during the Mexico meeting and are expected to form the basis for the key outputs of the WG. WG Chair informed that the attempt to create an on-line discussion forum under the WG-M&R web site had proved to be impractical without requiring secure sign-on. Alternate models need to be explored.
2. The group reviewed the membership of existing members not participating/ contributing to the working group for one or more years - Mr. Usman-e-Ghani (Pakistan), Mr. Ali Omran Ali (Iraq) and Mr. Firas Hussain Ali – Young Professional (Iraq) and agreed that WG Chair will contact these members to ascertain their continued interest before discontinuation of their membership.
3. The Chair received the nomination of Dr. Sanjay Belsare proposed by the Indian National Committee (INCSW). Since Dr. Sanjay was present at the meeting, his nomination was accepted. The membership status of the WG is given in **Annex 7 (page 55)**.

WG-M&R Minutes Item 2: Road Map to ICID Vision 2030 - Activities on modernization and revitalization

4. At the Mexico meeting, the group discussed the Action Plan for Vision 2030 and provided latest updates as per milestones indicated in the Action Plan. After deliberations on the action plan of the WG based on ICID Roadmap to Vision 2030 and considering the need to contribute to the ICID Vision 2030 in view of the group's mandate on

modernization and revitalization, the Chair expedited the nomination of members who will assist in preparation of an overview paper on State of the Art on Modernization of Irrigation Systems. After discussion, Dr. Sanjay Belsare from India; Engr. Muhammad Sani Bala from Nigeria; and Dr. Brian T. Wahlin from USA agreed to facilitate contributions from their regions.

5. The Group Chair (from IWMI) and Ms. Patricia Mejias from FAO also agreed to help with preparation of an advocacy paper on the need for adequate provision of resources for sustainable operation and maintenance of irrigation and drainage services, in collaboration with their respective organisations. It may be pointed out that ICID had brought out a publication on operation and maintenance of irrigation and drainage systems entitled “ICID Survey on Funding of Operation, Maintenance and Management of Irrigation and Drainage Projects” in 2000.

WG-M&R Minutes Item 3: Report on Modernization irrigation/ drainage for a new Green Revolution

6. The group noted the need for preparation of the publication titled “Modernization irrigation/ drainage for a new Green Revolution” and requested volunteers from the group to take up this assignment. The Chair then facilitated the nomination of members for this activity, in a manner that represents the different regions of the world so as to harness varying experiences from different parts of the world. The group decided to consider this item early next year in view of the numerous other important assignments that requires immediate actions. Chair promised to follow up with the members through email from November 2017 onwards.

WG-M&R Minutes Item 4: Preparation of a paper on the status of modernization in countries around the world

7. The Working Group reviewed the definition of “MODERNISATION” as agreed during the last meeting of the Group and as shared to members. The replacement of the “farmer” with “users”, and the addition of “... in harmony with the environment” at the end of the definition had been unanimously agreed by the group members. Additional revisions to the extended descriptions of the concepts would be considered after feedback from other Working Groups. Chair requested Central Office to assist in circulating the revised definition of Modernization to other relevant Working Groups and NCs with a request for comments from them by end of February 2018.

8. Four (4) case studies were received by the Chair, out of which, three (3) case studies viz. (a) the experiences from China by WG Vice Chair Dr. Dong Bin (China); (b) experiences from Korea by Dr. Kwang-Sik Yoon (Republic of Korea), and (c) experiences from Nigeria by WG Secretary Engr. Muhammad Sani Bala (Nigeria) were presented which was followed by a lively discussion. After deliberation and brief review, WG noted that the case studies presented from Korea and China will need to be revised as per the case study template. The draft case studies from Australia and Nigeria will be reviewed and revisions will be proposed to the authors for consideration.

9. A presentation on “Canal Automation” by Dr Brian T Wahlin (USA) is proposed to be made during the Saskatchewan meeting in Canada next year (2018) along with additional case studies proposed for development during 2017/18.

10. WG discussed the preparation of a paper on the status of modernization in countries around the world and suggested that members should volunteer to prepare more country experiences to help enrich the Group’s output. Members volunteered to develop further six case studies in time for the 2018 meeting of the WG namely: (i) India, (ii) USA, (iii) Malaysia, (iv) Japan, (v) Chinese Taipei, and (vi) MENA. Indonesia offered to prepare a case study for presentation during the 3rd WIF in Bali in 2019. Chair will circulate the case study template to the above countries and also share with all members.

WG-M&R Minutes Item 5: Exchange of information, knowledge & networking

11. The group discussed the issues related to exchange of information and updating of WG-M&R website and suggested following actions: (a) Irrigation modernization has different meanings to different countries so maintaining regular flow of information and knowledge exchange is very important; (b) The country papers/ case studies/ country guidelines should be made available through the WG website; and (c) Virtual meeting should be organized by identifying 1-2 topics for discussions. After discussion, the group proposed a WebEx meeting in February 2018.

WG-M&R Agenda Item 5.1: Web site of the WG

12. WG noted that the website of the working group <http://wg-mr.icidonline.org/> was updated with new membership list, agenda, minutes, events, etc. Members were requested to provide interesting articles/ papers/ presentations/ documents related to the activities of the group for uploading on the website. Dr. Brian T. Wahlin (USA) agreed to continue to provide maintenance support for the Group’s website, in collaboration with the Group Chair, and if possible with contributions by the ICID YPs.

WG-M&R Agenda Item 5.2: Webinar/ Web based seminars

13. The group discussed and supported the organization of webinar/ web based seminar and encouraged members to provide their suggestion on topics, based on the mandate of the WG. The group noted that ICID Central Office organized 7 webinars and one of the webinar was on “Planning for Irrigation Modernization – The MASSCOTE Approach” by Dr. Robina Wahaj (FAO). The Group Chair requested members to suggest 5-6 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. After discussion, the group proposed to organize a WebEx meeting in February 2018. The Chair requested Central Office to conduct a doodle poll to arrive at a suitable schedule/ time for the members to participate in the WebEx meeting.

WG-M&R Minutes Item 6: Updating Multilingual Technical Dictionary (MTD)

14. The group reviewed and discussed about updating of MTD and requested members to gain themselves with the use of this veritable resources in the course of their work. The Group Chair informed the members that ICID Central Office will be pleased to receive valuable contributions from them for improvement of the term(s). Due to paucity of time, assignment of suitable professional from WG-M&R for TF-MTD was not discussed.

WG-M&R Minutes Item 7: Brief report on the 23rd Congress “Modernizing irrigation and drainage for a new Green Revolution”, October 2017

15. The Chair informed the group about organization of 23rd Congress on the theme “Modernizing irrigation and drainage for a new Green Revolution” wherein substantial good quality of papers were received. The details of the various sessions organized in Mexico City were not discussed due to paucity of time. The group proposed to organise a workshop in Bali during 70th IEC meeting and WIF3 in 2019.

WG-M&R Minutes Item 8: Any other business

The meeting ended with vote of thanks.



**Minutes of the 4th Meeting of the
WORKING GROUP ON SUSTAINABLE DRAINAGE (WG-SDRG)**

12 October 2017, 09.00-10.30 hours (Session I)

12 October 2017, 11.00-12.30 hours (Session II)

Mexico City, Mexico

Strategy Theme: Scheme

Presented by the Chair

Year of Establishment: 2013

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) Ms. Wang Shaoli (China); (3) Dr. Ashraf El Sayed Ismail (Egypt); (4) Mr. Hannes Puu (Estonia) represented Mr. Mati Tonismae; (5) Ms. Helena Aijo (Finland); (6) Mr. Ardavan Azari (Iran); (7) Dr. (Ms.) Naoko Koshiyama (Japan); (8) VP Dr. Irene Bondarik (Russia).

Observers: (1) Wang Haihi (China); (2) Jose R. Chaves Chocon (Costa Rica); (3) VP Dr. Mohamed Wahba (Egypt); (4) Dominique Rollin (France); (5) Mika Turunen (Finland); (6) Seija Virtanen (Finland); (7) Yasunori Saiki (Japan); (8) Yuya Takeno (Japan); (9) VP Bong Hoon Lee (Republic of Korea); (10) Mr. Geumjun Lee (Republic of Korea); (11) Hector M. Arias (Mexico); (12) Arturo Gonzalez (Mexico); (13) Gvillano Chavez Fernandez (Mexico); (14) PH Prof. Bart Schultz (The Netherlands); (15) Engr. Oluniyi Esther Oyeronke (Nigeria); (16) Eng. Amali Abraham Amali (Nigeria); (17) Michael I. Nwabuofo (Nigeria); (18) Dr. Aidan Senzanze (South Africa); (19) Yawen Chiueh (Chinese Taipei); (20) Muhammad Ashraf (USA).

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

WG-SDRG Minutes Item 1: Action taken report by the Chair

1. Chair welcomed the members and presented a report on the actions taken on the decisions and proposals of the last meeting of the working group held at Chiang Mai in November 2016.

2. The WG reviewed the membership of the group which includes two new nominations and accepted them as Provisional Member to the group as they were not present. The group also reviewed the membership of existing members not participating/ contributing to the WG for one or more years – Dr. M.N. Bhutta (Pakistan), Mr. Krishna Prasad Rijal (Nepal), Mr. Yeolkar – Direct Member, JISL (India). WG suggested to discontinue membership of these three existing members and requested ICID to invite new nomination from their National Committees. While the group suggested to accept/ continue the existing membership of Mr. Raed Abbood Awad (Iraq) and Mr. Amjed Mohammed Abbas – Young Professional (Iraq). Membership status is given in **Annex 7 (page 5)**.

WG-SDRG Minutes Item 2: Road Map to ICID Vision 2030 - Activities on sustainable drainage

3. WG deliberated on roadmap to ICID Vision 2030 and action plan of the WG and agreed that WG need to (a) promote drainage as part of integrated water resources management, and (b) promote sustainable approaches for drainage and related projects through a balanced integration of (i) environmental, (ii) economic, and (iii) social and cultural aspects. After deliberation, WG agreed to work on the following aspects:

- (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.

4. WG Chair requested the members to provide their suggestions on the action plan activity and milestone by 30 November 2017.

WG-SDRG Minutes Item 3: Compilation of experiences in bio-drainage and bio-saline agriculture

5. The WG discussed the document titled "Bio-drainage for Management of Waterlogging and Soil Salinity" finalized by Dr Gurbachan Singh (India) which is almost ready for publication. Since no fresh comment have been received from any member, Chair suggested to finalize the document for its publication and circulation.

6. Dr. Naoko Koshiyama (Japan) made a presentation about sub-irrigation using drainage pipes in consolidated paddy rice fields of Japan during the meeting. A presentation on "Field experimental study on the effectiveness of dry drainage in salinity control" by Jingwei Wu (China) was received by the WG but was postponed due to some technical difficulties. WG decided to change the topic from wetlands to green infrastructure, and a presentation on "Green infrastructures v/s drainage water quality" was made by the WG Chair Bernard Vincent. WG Chair informed that one case study related to controlled drainage has been received from Finland. Chair further informed that during Mexico Congress, presentations were made on subject related to wetlands from Egypt and on controlled drainage from Finland which can also be considered while compiling experiences on green infrastructures, dry drainage and controlled drainage.

7. Considering the worldwide concern of the modality of drainage and its beneficial aspects under different conditions, the group proposed to organize a Workshop in Saskatoon in 2018 on dry drainage and bioreactors or green infrastructures. Apart from general audience, there is high potential to assemble local practitioners in US and Canada which may result in sharing their experiences with the WG. The group agreed that WG Chair will submit a proposal to ICID CO in the prescribed format for inclusion of the workshop in programme of 69th IEC in Canada in 2018.

WG-SDRG Minutes Item 4: Updating database on 'Drained area in the world'

8. The Chair noted the continued efforts of ICID Central Office in updation of the database on drained area and requested members to provide the latest information in respect of their countries every year regularly by filing the ICID datasheet.

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

9. The WG Chair briefed members about the meeting of the TF-MTD regarding updation of MTD. During the meeting, some representative from the NC's expressed their concern on not involving NC in updation of MTD who have supported past in updation of the dictionary. After discussion, WG members suggested that the interface design should be undertaken in consultation with NC's and structure of the MTD database should be available on web so that NC's can freely upload their respective documents. The WG Chair requested members to review the terms related to their domain.

WG-SDRG Minutes Item 6: Brief report on the 13th International Drainage Workshop, March 2017, Ahwaz, Iran

10. During the meeting, Mr. Azari (Iran) provided updates on the successful organization of 13th IDW. President Hon. Bart Schultz (Netherlands) reported on the publishing of Special issue of I&D Journal with the support of Iranian NC.

11. VP Irene Bondarik (Russia) provided a brief report on Baltic region drainage workshops, organized on a yearly basis by each country. WG discussed on modalities of dissemination of the outcome of these workshops.

12. WG discussed on organization of next workshop and proposed that the next IDW should be considered for 2020 or afterwards. WG Chair informed that the NC of Georgia has already shown their interest for organizing the 14th IDW. WG Chair suggested that Georgian NC should send their proposal to organize 14 IDW to ICID Central Office as soon as possible so that decision can be taken during 69 IEC at Saskatoon.

WG-SDRG Minutes Item 7: Dissemination of activities of WG

WG-SDRG Minutes Item 7.1: Website of the group

13. Chair encouraged members to access the WG webpage and provide their comments/ suggestions for further improvement and also share relevant document/ report/ article/ presentation etc. for uploading on website.

WG-SDRG Minutes Item 7.2: Webinar/ Web based seminar

14. 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-SDRG Minutes Item 8: Any other business

WG in principle agreed to hold virtual meeting on web-ex platform in March 2018.



**Minutes of the 2nd Meeting of
WORKING GROUP ON WATER SAVING IN IRRIGATED AREAS (WG-WATS)**

12 October 2017, 09.00-10.30 hours (Session I)

12 October 2017, 11.00-12.30 hours (Session II)

Mexico City, Mexico

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) VPH Adama Sangare, Vice Chairman (Mali); (3) Mr. Mortaza Yazdekhashti – Young Professional, Secretary (Iran); (4) Ms. Jianxin Mu (China); (5) Ms. Eman Ragab Nofal (Egypt) represented VPH M.H. Amer; (6) Prof. (Ms.) Kyung-Sook Choi (Republic of Korea); (7) VPH Gerhard Backeberg (South Africa) represented Dr. Joe Stevens; (8) Mr. Yalçın Dalgin (Turkey); (9) Dr. Vijay Labhsetwar represented Secretary General Avinash Tyagi.

Observers: (i) Mr. Chris Norman (Australia); (ii) Mr. Gao Lihui (China); (iii) Mr. Ephraim Sekyi-Annan (Ghana/Germany); (iv) Mr. Omid Moridnejad (Iran); (v) Dr. Marco Arcieri (Italy) represented Prof. Michele Perniola; (vi) Mr. Mirza Junaid Ahmad (Pakistan); (vii) Mr. Haken Aksu (Turkey).

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

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

1. Chair welcomed the members and presented a report on the actions taken on the decisions and proposals of the working group held at its last meeting at Chiang Mai in November 2016.

2. The group reviewed the nominations of Dr. Ashfaq Ahmed Sheikh (Pakistan) and Prof. Michele Perniola (Italy) for the membership of the group. Since Dr. Ashfaq neither attended nor represented, he was provisionally accepted while Prof. Michele was represented by Dr. Marco Arcieri and was accepted as member. Membership status is given in **Annex 7 (page 55)**.

3. WG reviewed the membership of existing members not participating/ contributing to the working group for one or more years – Mr. Kamal Kumar Jangid (India); Mr. Dhuha Mahmood Hussein (Iraq); Eng. S. Mohanarajah (Sri Lanka); Mr. Abijit Joshi – Direct Member, JISL (India). WG suggested ICID Central Office to contact these members to ascertain their continued interest otherwise request replacement from their National Committees.

WG-WATS Minutes Item 2: Road Map to ICID Vision 2030: Activities on water saving in irrigated areas

4. During the meeting, Chair reviewed the activities of the WG listed in the action plan of the WG towards Road Map to ICID Vision 2030 and discussed briefly with the members. Some initial ideas for actions and deliverables, as agreed during the meeting, are as follows:

- (a) **GOAL A: Activity 3.2 – Best Practices and Successful story on water saving:** Chair Mehrzad Ehsani, Panel of Expert for Question 60.1, briefly informed the outcome and presented the General Report and outcome of Question 60.1. WG decided not to organize a separate seminar since the theme of 23rd Congress Question 60.1 'Emerging issues and challenges of water saving' already covers the objective of the seminar on best practices and successful story on water saving.
- (b) **GOAL B: Activity 1.4 – Policy and legal approaches to water saving:** As agreed at Chiang Mai, Ms. Jianxin Mu (China) developed the draft questionnaire to collect information from NCs and presented it during the meeting. After deliberations, it was decided that Mr. Ehsani (Iran), Dr. Adama (Mali), Dr. Gerhard Backeberg (South Africa), and Mr. Dalgin (Turkey) will provide their comments and recommendations to Ms. Mu Jianxin (China) by end of November 2017 in order to finalise the questionnaire.

- (c) **GOAL B: Activity 1.5 – Water charging Policies:** Chair informed that the group had already decided to work on preparing a technical book on water charging policies and mechanism to analyze the effect of water charges on water saving in agriculture. Chair Mehrzad Ehsani volunteered to make the first draft of framework and presented a template to collect data and information from NC. During the meeting, the group discussed the template and decided to send the draft to ICID Central Office after a minor modification so that it can be circulated to all NCs. Chair encouraged members to follow up with their NCs to complete it and send back to ICID Central Office.
- (d) **GOAL B: Activity 1.11 – State of the Art on Water saving:** In order to highlight the most recent researches and newest ideas on the scope of the working group, it was decided to prepare an overview paper on the subject. It was proposed that the paper would be submitted for publishing in ICID Journal on Irrigation and Drainage. Dr. Stevens and Dr. Gerhard Backeberg finalized the draft framework and sent to the WG members for sending their National experience to develop the paper. The Chair requested all members to contribute in this activity without any further delay.
- (e) **GOAL C: Activity 4.8 – Condensed overview of existing key books, manuals, guidelines and other relevant publications on water saving:** The Chair informed the members that Mr. Yazdekhasti (Iran) was supposed to gather articles and books which are new in this area of knowledge however, it was decided that he will provide updates on the topic of water saving in the next meeting.

WG-WATS Minutes Item 3: Presentation by the WatSave Award winner(s)

5. Mr. Chris Norman (Australia), the winner of WatSave Technology Award 2017 presented his contribution on "Saving Water in Northern Victoria, Australia". WG thanked him for the presentation and sharing the idea of water saving. The Chair reported that many works received for WatSave Awards were in good range and in some cases it was very difficult to choose the best one from them. After discussion, the WG suggested to appreciate the ones who have submitted their works for WatSave Award but not selected as the best one by issuing a certificate of appreciation by ICID Central Office. It will encourage them for further contributions and connect them to the ICID activities.

WG-WATS Minutes Item 4: Dissemination of activities of WG – Website of the group

6. 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 on the topic in order to be up to date with new developments, methods and approaches. Members were also requested to provide interesting articles/ papers/ presentations/ documents related to the mandate of the WG from the respective countries and National Committees for uploading it on the ICID website.

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

7. During the meeting, the group discussed about the updating of MTD and after discussion, it was proposed to forward the comments/ suggestions to the new task force of MTD.

WG-WATS Minutes Item 6: Any other business



**Minutes of the 4th Meeting of the
SUB-COMMITTEE ON THEMES, TOPICS AND WORK PLANS OF
FUTURE ICID EVENTS (SC-E-THEMES)**

08 October 2017:17.00 – 18.30 Hours
Mexico City, Mexico

Terms of Reference (ToR): (i) To deliberate and recommend the Themes, sub-themes of World Irrigation Forums and Theme and Questions of future Congresses, (ii) To set out format and technical contents of the Congress and WIFs, and (iii) To review the technical outputs and outcomes and suggest follow ups.

Members Present: (1) PH Dr. Gao Zhanyi (China), Chair; (2) VP Dr. Ding Kunlun, Chair, PCTA (China); (3) Mr. Ali Reza Salamat, Member, PCTA (Iran) represented by Sahar Norouzi; (4) Mr. Franklin E. Dimick, Acting Chair, WG-MWSCD (USA); (5) VP Mr. Ian W. Makin, Chair, WG-M&R (UK); (6) VPH Mr. Felix B. Reinders, Member, ITAC-WIF1 (South Africa); (7) Dr. RagabRagab, Member, ITAC-WIF2 (UK); (8) VP Bong Hoon Lee, Member, ITAC-23rd ICID Congress (Korea) and (9) Er. Avinash C Tyagi, Secretary General, ICID.

Observer: (1) PH Prof. dr. Bart Schultz, former Chair, SC-E-THEMES (The Netherlands); (2) VP Dr. Mohamed Wahba (Egypt); (3) VPH Gerhard Backeberg (South Africa) and (4) VPH A. B. Pandya (India).

Sub-Committee Minutes Item 1: ATR on the Minutes of the 3rd Meeting of Sub-Committee

1. Sub-Committee has taken note of the suggestion 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 WG as it would provide an opportunity of participating in the activities of the SC-E-THEMES for those members, who are unable to attend the meeting physically and to continue their contributions to SC.

2. Sub-Committee has taken note of the Action Taken Report on the minutes of the 3rd meeting of Sub-Committee is placed at Annex 1 (of the agenda notes) and found that each item has been covered. One representative each from the host National Committees of next ICID Congress and next WIF should be invited as members of the Committee.

Sub-Committee Minutes Item 2: Theme and Topics for 25th ICID Congress, 2023

3. The Sub-Committee noted that the venue for the 25th ICID Congress is yet to be fixed, however, the Sub-Committee suggested that the Theme and Topics for the 25th ICID Congress that should be decided 5 years early prior to the 25th congress, so the Theme and topics for 25th ICID Congress will be decided during the 69th IEC next year. From now to 69th IEC, the members will communicate and discuss the Theme and topics for 25th ICID Congress, through correspondence or virtual meetings.

4. The following considerations have been discussed for the topics of Theme and Questions for 64 and 65, including low land drainage and water logging issues, tackling water scarcity in agriculture, managing return flow, etc. The Central Office will facilitate to develop proposal for the Theme and Topics for Q 64 and Q 65 of 25th ICID Congress.

Theme: Tackling Water Scarcity in Agriculture

Question 64: Innovative water resources that could be tapped for irrigated agriculture?

Question 65: On-farm techniques for saving water?

Sub-Committee Minutes Item 3: Theme and Topics for 4th World Irrigation Forum, 2022

5. The Sub-Committee noted that the venue for the 4th World Irrigation Forum is yet to be fixed; however, the Committee suggested that the topics for Theme and Sub-Themes for WIF4 should be discussed and decided during the 69th IEC meeting next year. For the future WIFs the Main Theme and Sub-Themes should be decided 5 years early prior to the WIF.

6. The Sub-Committee has considered the topics such as water share and transfer, how to feed population in 2050, etc for the Theme and Sub-Themes for WIF4. From now to 69th IEC, the members will communicate and discuss the Theme and Sub-themes for WIF4 through correspondence and virtual meetings. The Central Office will facilitate to develop proposal for the Theme and Sun-theme for WIF4.

Sub-Committee Minutes Item 4: Review the Outcome of WIF2, Chiang Mai, Thailand and Suggest Follow Ups

7. The Sub-Committee deliberated upon the outcome of WIF2 and recommended that the Farmers' Round Table should be organized in future WIFs by cooperating with other organizations. Some sponsorship should be allocated to support farmers to attend the WIF. Farmers are the end users of technologies and techniques and measures, therefore, involving them in discussions and communications is important.

8. The Sub-Committee also considered that the establishment of High Level Advisory Group, which is important for ICID. The Sub-Committee recommended that the activity of High Level Advisory Group should be further developed and highlighted. In WIF policy, financial and economic and management issues for irrigation and drainage should be discussed and highlighted with the involvement of stakeholders.

Sub-Committee Minutes Item 5: A Review of the Technical Outputs of Congress Questions

9. The Sub-Committee deliberated upon the Background Note and recommended that the technical outputs of congress questions should be improved and monitored continually. Measures should be taken to increase the paper quality with the focus to answer the designated questions, encouraging the NCs and Work Bodies to organize and recommend authors to write and contribute papers.

Sub-Committee Minutes Item 6: Any Other Business