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Minutes

Sixty Sixth Meeting of
International Executive Council (IEC)
and
Pre-Council Meetings of Workbodies
11-16 October 2015, Montpellier, France

Minutes of the Sixty Sixth Meeting of International Executive Council (IEC) of ICID

11-16 October 2015, Montpellier, France

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List of Abbreviations

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

ICOLD	International Commission on Large Dams	MNCID	Myanmar National Committee on Irrigation and Drainage
ICRISAT	International Crops Research Institute for the Semi-Arid Tropics	MoU	Memorandum of Understanding
IDW	International Drainage Workshop	MTD	Multilingual Technical Dictionary
IEC	International Executive Council	MXCID	Mexican National Committee of International Commission on Irrigation and Drainage
IFAD	International Fund for Agricultural Development	NC	National Committees/Committee
IFPRI	International Food Policy Research Institute	NENCID	Nepal National Committee, ICID
IGS	International Geosynthetics Society	NETHCID	Netherlands National ICID Committee
INACID	Indonesian National Committee of ICID	NGO	Non-Governmental Organization
INAE	Indian National Academy of Engineering	NINCID	Nigerian National Committee on Irrigation and Drainage
INCID	Indian National Committee on Irrigation and Drainage	OECD	Organisation for Economic Co-operation and Development
INWEPF	International Network for Water and Ecosystem in Paddy Fields	PANCID	Pakistan National Committee on Irrigation Drainage
IPTRID	International Program for Technology Research in Irrigation and Drainage	PCSO	Permanent Committee on Strategy and Organization
IRCID	Irish National Committee on Irrigation and Drainage	PCTA	Permanent Committee for Technical Activities
IRNCID	Iranian National Committee on Irrigation and Drainage	PFC	Permanent Finance Committee
IRQCID	Iraqi National Committee of Irrigation and Drainage	PH	President Honoraire
ISCID	Israeli National Committee, ICID	PNC-ICID	Philippine National Committee of the International Commission on Irrigation and Drainage
ISO	International Organization for Standardization	PNCID	Portuguese National Committee on Irrigation and Drainage
ITAC	International Technical Advisory Committee	RIO+20	United Nations Conference on Sustainable Development
ITAL-ICID	Comitato Nazionale Italiano ICID	RUCID	National Committee of the Russian Federation on Irrigation and Drainage
ITRC	Irrigation Training and Research Center	SADC	Southern African Development Community
IWALC	International Water-related Associations' Liaison Committee	SANCID	South African National Committee on Irrigation and Drainage
IWMI	International Water Management Institute	SARIA	Southern African Regional Irrigation Association
IWP	Irrigation Water Productivity	SG	Secretary General
JICA	Japan International Cooperation Agency	SINCID	Slovenian National Committee on Irrigation and Drainage
JNC-ICID	Japanese National Committee, ICID	SLNICID	Sri Lanka National Committee, ICID
KAZCID	National Committee of Kazakhstan on Irrigation and Drainage	SYCID	Syrian National Committee of Irrigation and Drainage
KCID	Korean National Committee on Irrigation and Drainage	TANCID	Tanzania National Committee for Irrigation and Drainage
KYRCID	Kyrgyz National Committee, ICID	TDS	Text Delivery Service
LinkedIn	Professional social networking website	TF	Task Force
LTCID	Lithuanian National Committee on Irrigation and Drainage	TF- BIO-ENERGY	Task Force on Water for Bio-Energy and Food
MAKCID	Comite Nationale d'Irrigation et de Drenage de Macedonie	TF-FIN	Task Force on Financing Water for Agriculture
MANCID	Malaysian National Committee on Irrigation and Drainage	TF-SEDI-MENTATION	Task Force on Sedimentation of Reservoirs
MB	Management Board		
MDG	Millennium Development Goals		
MH	Meeting Hall		

TF-VE	Task Force on Value Engineering	WG-ENV	Working Group on Environment
TF-WWF6	Task Force to Guide ICID Inputs to World Water Forum 6	WG-HIST	Working Group on History of Irrigation, Drainage and Flood Control
THAICID	Thai National Committee on Irrigation and Drainage	WG-IDSST	Working Group on Irrigation and Drainage in the States Under Socio-Economic Transformation
TUCID	Turkish National Committee, ICID	WG-MDGs	Working Group on Millennium Development Goals
UACID	Ukraine National Committee of ICID	WG-MIS	Working Group on Modernization of Irrigation Services
UIP	User Interface Platform (of GFCS)	WG-ON-FARM	Working Group on On-Farm Irrigation Systems
UN	United Nations	WG-POVERTY	Working Group on Role of Irrigation in Poverty Alleviation and Livelihoods
UNCSD	United Nations Conference on Sustainable Development	WG-PQW	Working Group on Use of Poor Quality Water for Irrigation
UNDP	United Nations Development Programme	WG-SDTA	Working Group on Sustainable Development of Tidal Areas
UNESCO	United Nations Educational, Scientific and Cultural Organization	WG-TRUE	Working Group on Technology and Research Uptake and Exchange
UNESCO-IHE	UNESCO-IHE Institute for Water Education	WG-WATS	Working Group on Water Saving for Agriculture
UNW-DPC	UN-Water Decade Programme on Capacity Development	WG-YPF	Working Group on Young Irrigation Professionals Forum
URUCID	Uruguay National Committee, ICID	WID Prize	World Irrigation and Drainage (WID) Prize
USCID	U.S. National Committee on Irrigation and Drainage	WIF	World Irrigation Forum
UzNCID	Uzbekistan National Committee, ICID	WMO	World Meteorological Organization
VPH	Vice President Honoraire	WUA	Water Users Association
WATSAVE	Water Saving Activities / Award	WWAP	World Water Assessment Programme
WB	World Bank	WWC	World Water Council
WECS	World Energy Commission Secretariat	WWD	World Water Day
WG	Working Group	WWF	World Water Forum
WG-CAFM	Working Group on Comprehensive Approaches to Flood Management	YUGCID	Yugoslav Association on Drainage and Irrigation
WG-CLIMATE	Working Group on Global Climate Change and Agricultural Water Management	ZACID	Zambian National Committee, ICID
WG-CROP	Working Group on Water and Crops		
WG-DRG	Working Group on Drainage		
WG-DROUGHT	Working Group on Water Management in Water Stressed Regions		



**Minutes of the 66th Meeting of
INTERNATIONAL EXECUTIVE COUNCIL (IEC) OF ICID
Montpellier, France**

Opening Plenary (First Session): 12 October 2015, 17:30 – 19:00 hours

Second Session: 16 October 2015, 09:00 – 12:30 hours

Third Session: 16 October 2015, 14:00 – 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): 12 October 2015, 17:30 – 19:00 hours

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

1. President Dr. Saeed Nairizi opened the 66th Meeting of the International Executive Council, the general body and highest decision-making body of ICID on 12 October 2015 in Montpellier, France. The meeting was organized in three sessions. The Opening Plenary on 12th 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 800 delegates from 65 countries. They participated in the various working groups, task teams and committees in the following three days. The main session of IEC which was conducted in two sessions on 16th 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 66th IEC meeting is given in **Annex 1 (page 39)** and included representatives of 32 National Committees, 9 Office Bearers, past Presidents and Vice Presidents along with Observers.

2. Dr. Saeed Nairizi in his first address to the Council as its Chair, after taking over as President of ICID in 2014, welcomed the members. He asked the House to observe one minute silence in remembrance of Er. Michel Delavalle, who was Vice President of ICID for the term 1983-86, and other departed souls from ICID fraternity. The House observed one minute silence in remembrance of VPH Delavalle and other departed souls from ICID community. May their souls rest in peace!

3. President then proceeded with his opening remarks, welcoming Sudan and Fiji to the Council. The President gave an overview of ICID's mission, goals, structure and governance, focusing on strategic and thematic areas and touching upon UN Sustainable Development Goals that are of concern to ICID and need to be addressed by it. He gave a brief account of NCs and countries visited by him in 2014-15. He sought the Council's attention particularly on the matters such as Water-Food-Energy nexus, ICID Vision 2030 and its Goals and ICID Young Irrigation Professionals Forum, while providing the Council an update on these topics. President Dr. Nairizi then introduced ICID's new initiatives like World Water System Heritage (WSH) Program and Technical Support Unit (TSU) and requested the support of the Council and ICID stakeholders, including partners, for their successful implementation. He then exhorted all ICID stakeholders and partners to make the Second World Irrigation Forum (WIF2) in Chiang Mai a great success in all respects.

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

IEC Minutes Item 2: Procedural Aspects/Conduct of 66th IEC and Workbody Meetings – An introduction by Secretary General and Chairs of PCTA and PCSO

5. Secretary General Er. Avinash C. Tyagi introduced the Agenda and drew the attention of the members to certain issues that need their special consideration during the meetings. He asked the members to use the updated agenda notes with supplementary information uploaded on the website <http://www.icid.org/agenda.html> for the meetings of the Council, the Permanent Committees and Work Bodies. He also urged the members to use the DropBox share folder for easy dissemination/exchange of information among participants at ICID work body meetings, especially the Chairs and Secretaries for management of information flow.

6. VP Dr. Huseyin Gundogdu, Chair, PCSO introduced mandate of PCSO to the House, including its membership structure and the work bodies reporting to it and the Committee's expectations from these work bodies. He talked about the strategic and organizational matters that would be considered at the PCSO meeting such as ICID Vision 2030, revised Scheme for Recognition of Heritage Irrigation Structures, Knowledge Management tools and ICID Young Professional Forum. He invited all for PCSO meeting that would be held on 15 October 2015.

7. VPH Felix Reinders, Chair, PCTA utilized the occasion to present how PCTA functions in achieving the technical goals of the Commission through work bodies reporting to it under four Strategy Themes. He stressed on the need to improve the functioning of ICID Work Bodies in achieving their mandates and how they can be achieved. He reiterated that the presence of the Chairs of the Work Bodies, who were ex-officio members of PCTA, at the PCTA meeting in order to report the outcome of the meetings of their respective workbodies was mandatory.

8. He asked the members to utilize the meeting time during the Working Group meeting in the most productive way and discuss the topics relevant to the mandate of the working groups. Issues related to the membership of the WGs have already been discussed by the Chair and Central Office and members should not devote too much time on such administrative matters. He urged the chairs to encourage e-mail exchange/contribution from members who have not been able to attend the meetings physically.

IEC Minutes Item 3: Presentation by the National Committee: South Africa

9. VPH Felix Reinders, representing the National Committee of South Africa made a presentation showcasing the activities of SANCID and shared some important aspects regarding the irrigation scene in South Africa. The NC presentation concluded that the irrigated agriculture is practiced successfully in South-Africa and is based on excellent research, innovation and manufacturing with designers which carefully select, plan and design effective irrigation systems and farmers that manage their systems effectively. He said that SANCID would be happy to receive feedback and suggestions from the members to improve its activities. A brief outline of the presentation made is given at **Annex 2 (page 41)**. The detailed write-up and the PowerPoint presentation are available at http://www.icid.org/sancid_presentation_2015..pdf

IEC Minutes Item 4: Presentation of Awards: Best Paper, WatSave & Heritage Irrigation Structures

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

10. Based on the recommendation of Chair of EB-JOUR, PH Prof. Dr. Bart Schultz informed that out of the papers published in the ICID Journal "Irrigation and Drainage" during the year 2014, the Best Paper Award for 2015 was given to Dr. Willem F. Vlotman and Dr. Clarke Ballard for their paper titled "Water, Food and Energy Supply Chains for a Green Economy" that was published in the issue 63.2.

IEC Minutes Item 4.2: Presentation of WatSave Awards

11. PH Dr. Gao Zhanyi (China), Chair of the Panel of Judges constituted for the evaluation of the nominations received for WatSave Awards 2015, presented his report to the Council, introducing the works for which the Awards would be presented. He announced Mr. Li Xinjian (China) as the winner of the WatSave Award for Technology for his work "Technology for Water Saving of Paddy Rice and Cash Crops", Prof. Samiha Ouda and Prof. Abd El-Hafeez Zohry (Egypt) as the joint winners of WatSave Award for "Innovative Water Management for their work "Crop Rotation: An Approach to Save Irrigation Water under Water Scarcity in Egypt" and Dr. Bhagwan M. Kapse (India) as the winner of this year's WatSave Farmer Award for his work "Rural Prosperity through More Crop Per Drop". The panel recommended no award for Young Professional category.

12. President handed over the plaques and the cheques of US\$ 2000 each to the WatSave Award winners. President thanked AFEID for the financial support for the WatSave Awards for 2015.

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

13. Based on the recommendation of the Chair of the Panel of Judges VP Dr Huseyin Gundogdu, the Council approved the inclusion of the identified heritage irrigation structures, as given in **Annex 3 (page 43)** in the ICID Register of 'Heritage Irrigation Structures'. The representatives of organizations managing these structures or the NCs were handed over 'Certificates' and 'Plaques' to that effect.

Second Session: 16 October 2015, 09:00 – 12:30 hours

IEC Minutes Item 5: Action Taken Report on the decisions of 65th IEC and the decisions taken by the Management Board (MB)

14. The Council noted that the actions have been either initiated or completed on all the decisions taken by the 65th IEC during the year. The Secretary General presented to the Council, the decisions taken by the Management Board on behalf of IEC in accordance with Article 8.1 of the ICID Constitution and Clause 3.9.2 of ICID By-laws. The Council endorsed the decisions of MB as given in **Annex 4 (page 45)**.

IEC Minutes Item 6: Report by the Secretary General

15. Secretary General Er. Avinash C. Tyagi presented the Annual Report 2014-15, (which had already been sent to the NCs) bringing out physical and financial progress on activities undertaken during the period from April 2015 till the date of the Council meeting in Montpellier, including the report on cooperation and collaboration with various international organizations.

16. Among others the Secretary General informed about the progress made in the use of Internet to organize virtual meetings of various workbodies such as WG-ENV, WG-DROUGHT, Management Board (MB), Consultative Group on Vision 2030, using WebEx tool. SG also introduced the I&D Products and Services Directory, which is being compiled by the Central Office and requested members to encourage various stakeholders within their countries to make use of this Directory.

17. SG informed that during the period under report, ICID closely collaborated with WMO, AARDO, FAO, ADB, and IWMI in addition to those reported in Annual Report 2014-15 to fulfil common objectives. The Council endorsed the report of the Secretary General. The Council thanked WMO for supporting various activities including the financial support provided to the Young Professionals from developing countries for participation at the training workshops.

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

18. Co-Theme Leader of Strategy Theme “Basin”, VP Laurie Tollefson (Canada) made a presentation on Strategy Theme “Basin”, analyzing the work undertaken by the group of work bodies under respective strategy themes and identifying gaps, in fulfilling the objectives of ICID relating to that theme as well as exploring/using interconnections with other themes. The presentation aimed at creative analysis of functioning of ICID workbodies, their success in achieving mandates and invigorating them within the framework of ICID mission and objectives.

19. VP Laurie Tollefson emphasized that the role of working groups under the theme “Basin” was of particular importance in view of the Agenda 2030 adopted by UN General Assembly where 17 Sustainable Development Goals (SDGs) have been identified. These WGs address issues such as Climate, Environment, etc. which were cross-cutting in nature and require multi-disciplinary inputs. Although Agricultural Water Management (AWM) professionals deal with these aspects, the expertise in these areas generally lies outside the institutions directly linked to the NCs. The analysis made by the strategy theme Co-Leader is placed at **Annex 5 (Page 47)** while the presentation is available at: http://www.icid.org/st-basin_2015_laurie.pdf

IEC Minutes Item 8: Reports by the Chairs of Permanent Committees

IEC Minutes Item 8.1: Permanent Finance Committee (PFC)

20. VP Laurie Tollefson, Chairman, PFC presented to the Council, the Report of the 36th meeting of the PFC held on 12 October 2015 at Montpellier, France. The Report of PFC is given at **Appendix I (page 61)**.

21. Prof. Dr. Charlotte de Fraiture (Netherlands) pointed out that during the last three years, it can be seen that there has been a substantial rise in the income of ICID mainly because of the good support to the budget from the NCs organizing ICID events; increase in the income from Central Office Building rents and due to the favorable exchange rates, which is a good news. However, she wanted to know the reason for a steep rise in the expenditure. Secretary General informed the Council that the increase in the expenditure was mainly due to (i) the deferred maintenance carried out to keep the Central Office building functioning safely; (ii) arrears of various taxes paid during the last three years such as lease amount paid to the L&DO Office of Government of India; (iii) proper maintenance of the assets; and (iv) general inflation. In addition to the above, the Council was also informed, that a

provision of US \$ 30,000, has been made for undertaking capacity building activities such as the training workshops w.e.f. Financial Year 2015-16 proposed to be held in Africa along with 4th African Regional Conference in Egypt.

22. The Council noted that PFC had considered the issue of review of annual membership subscription on the request of some NCs. The Council agreed to setup a Task Force to review the membership formulae and propose a new membership structure duly considering the long term financial sustainability of ICID. The Council also agreed to the PFC proposal to suspend the 3% annual increase in the membership subscription (refer to earlier IEC decision) w.e.f. January 2016, till IEC takes a final decision on the recommendations of the above Task Force.

IEC Minutes Item 8.2: Permanent Committee on Strategy and Organization (PCSO)

23. VP Huseyin Gundogdu, Chairman, PCSO presented to the Council, the Report of the 26th meeting of PCSO held on 15 October 2015 from 0900-1230 hours. The Report of PCSO is given at **Appendix II (page 65)**.

24. Members expressed their concern at the decrease in the membership from European countries and desired that a Task Force should be setup to understand the reasons for the same.

25. As per the recommendation of PCSO, the Council approved the revised mandate of C-CONGR as: (a) To recommend general improvement in conduct of WIFs, Congresses, Conferences and other ICID events; (b) Representatives/Organizers of the ICID events to present a summary report on preparations made for the said events; (c) Share the lessons learned / difficulties faced in organizing the events; and (d) Make proposals for the smooth conduct of the ICID events.

IEC Minutes Item 8.3: Permanent Committee for Technical Activities (PCTA)

26. VPH Felix Reinders, Chairman, PCTA presented to the Council, the Report of the 35th meeting of PCTA held on 15 October 2015 from 1400-1900 hours. The Report of PCTA is given at **Appendix III (page 71)**.

27. On a query from VPH Dr. Ragab Ragab, representing NC of UK, the Secretary General clarified that TSU will work on the principle of voluntary contributions. Experts would be requested to devote a maximum of 10 days in a calendar year on a voluntary basis. Beyond this, members would be paid honorarium. Any travel cost in connection with the activities of TSU would be borne from the Capacity Development Fund.

IEC Minutes Item 8.4: Discussions and Decisions on the Recommendations of the Permanent Committees

28. The Council after deliberations on the recommendations and Reports of PFC, PCSO and PCTA together in totality and adopted resolutions on the Financial Matters of ICID presented through PFC Report, and on the Organizational and Technical Matters of ICID presented through the PCSO and PCTA Reports, placed at **Resolution IEC-1/66 (Page 7)**, **Resolution IEC-2/66 (Page 8)** and **Resolution IEC-3/66 (Page 9)**, respectively.

29. Based on the PFC report presented by Chair VP Tollefson, the Council approved the (i) Audited Accounts of ICID for FY 2014-15 as given in **Annex R1.1 (page 13)**, (ii) Revised Budget for FY 2015-16 and the Budget for FY 2016-17 as given in **Annex R1.2 (page 17)**, and (iii) the Registration Fee Structure for 67th IEC and WIF2, 4th African Regional Conference, 13th Irrigation and Drainage Workshop and 68th IEC and 23rd ICID Congress meetings as given in **Annex R1.3 (page 18)**.

30. The Council approved the membership changes of various work bodies under PFC, PCSO and PCTA, including the changes in the membership of PCTA. The consequent consolidated membership of all work bodies is given in **Annex 6 (page 49)**.

31. The Council approved the setting up of a Technical Support Unit (TSU) at ICID Central Office as placed at **Annex R3.1 (page 19)**. The Council also approved the setting up of ICID-Young Professionals Forum (ICID-YPF) as a LinkedIn Group and ratified the detailed scope and rules and regulation of operation of ICID- YPF as given in **Annex R3.2 (page 21)**.

32. Based on the Report of PCTA presented by its Chair, the Council accepted the Report of Sub-Committee under PCTA and approved the Themes, Sub-themes and Topics as given in **Annex R3.3 (page 25)** and Work Plans as given in **Annex R3.3A (page 27)**, and **Annex R3.3B (page 28)** for future ICID Congresses and WIFs.

33. As per the recommendations of PCTA which considered the scoping documents for establishment of new workbodies, the Council approved the setting up of four new workbodies, viz. (i) WG on Irrigation Development and Management (WG-IDM), (ii) WG on Capacity Development, Training and Education (WG-CDTE), (iii) WG on Water Saving in Irrigated Areas (WG-WATS) and (iv) TF to Guide ICID Inputs to 8th World Water Forum (TF-WWF8), with new mandates. Besides, the Council also approved the re-constitution of (i) WG on Environment (WG-ENV), (ii) WG on Climate Change and Agricultural Water Management (WG-CLIMATE) (iii) WG on Sustainable On-Farm Irrigation System Development (WG-SON-ONFARM) with revised mandates. The mandates for the newly established and re-constituted workbodies are placed at **Annex R3.4 (page 29)**.

Third Session: 16 October 2015, 14:00 – 17:30 hours

IEC Minutes Item 9: ICID Vision 2030

34. President Dr Saeed Nairizi had presented during the plenary session the background under which the decision to undertake the exercise of developing a Draft Document on ICID Vision for the next 15 years and the setting up of a Consultative Group for the purpose. VP Dr. Hüseyin Gündoğdu, Convener, Consultative Group presented the Draft Vision 2030 Document (given at Annex 4, pages 13-25 of “ICID Agenda for 66th IEC Meeting”) for the consideration of the Council. The Council noted that the Consultative Group had sought inputs for preparing the Draft Vision 2030 from various stakeholders and National Committees through a questionnaire. The Draft ICID Vision 2030 was presented /discussed during the Plenary of IEC Session; Meeting of NCs with Office Bearers; Meetings of the OBC and at PCSO.

35. The Council noted that based on these discussions, the Vision, the Mission and six Organizational Goals have been recommended by PCSO for adoption. The Council deliberated on the recommendations and adopted the Vision, Mission and the Organization Goals vide **Resolution IEC-4/66 (Page 10)** on ICID Vision 2030 as illustrated in **Annex R4.1 (page 31)**.

36. The Council desired that the Consultative Group should develop an Action Plan to achieve these Goals and present it at the 67th meeting of IEC. It requested CG to prepare the Action Plan giving due consideration to the targets being finalized by the UN Working Group for recently adopted SDGs.

IEC Minutes Item 10: Scheme for Recognition of Heritage Irrigation Structures

37. VPH Dr. Ragab Ragab, Chairman of the Task Team constituted to work out the objectives, guidelines, and procedures to give recognition to historical irrigation structures, presented the revised ‘Scheme for Recognition of Heritage Irrigation Structures (HIS)’, in light of the detailed inputs provided by WG-HIST and OBC, particularly in incorporating the non-functional irrigation structures.

38. The Council adopted the revised Scheme for Recognition of Historical Irrigation Structures for inclusion in the ICID Register of HIS through **Resolution IEC-5/66 (Page 11)** which is placed at **Annex R5.1 (page 33)**.

39. On a query from NCs of Egypt and Russia, SG informed that some of the nominations submitted by the NCs did not fulfill the requirements as laid down in the scheme. It was pointed out that although the nomination form requested to be filled-in for inclusion of an Irrigation Structure into ICID Register of HIS was self-explanatory, additional explanations would be provided in the Nomination Form to help NCs fill them with adequate information.

40. It was also clarified by SG that some of the nominations needed a bit more details although the basic minimum information had been provided. These nominations were provisionally accepted, but will be included in the ICID Register only after the required additional information is provided. The concerned NCs shall be informed of the details required for such provisionally accepted irrigation structures for inclusion in the ICID Register of HIS.

IEC Minutes Item 11: Status of Future ICID Conferences / Congresses / Forums

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

- (a) 67th IEC and 2nd World Irrigation Forum, Chiang Mai, Thailand, 6-12 November 2016
- (b) 4th African Regional Conference at Aswan City, Egypt, on 26-28 April 2016
- (c) 13th International Drainage Workshop, Ahvaz City, Khuzestan Province, Iran, March 2017
- (d) 68th IEC and 23rd Congress on Irrigation and Drainage, Mexico City, Mexico, 8-14 October 2017

42. Representatives of THAICID, ENCID, IRNCID and MXCID presented the status of preparations for holding the 67th IEC and WIF2 in Chiang Mai, 4th ARC in Aswan City, 13th IDW at Ahwaz City and 68th IEC and 23rd Congress in Mexico City, including the detailed fee structure for the events. Based on the recommendations of PFC, the Council approved the fee structures for the various events as given in Annex R1.3 (page 18).

43. The Council thereafter considered the proposal submitted by Nepal NC for 8th Asian Regional Conference in 2018, Canadian NC for 69th IEC in 2018 and Indian NC for 9th International Micro Irrigation Conference in 2019/2020 and approved these proposals/offers in principle. The Council also approved the renaming of 'Micro Irrigation Symposium' as 'International Micro Irrigation Conference'.

IEC Minutes Item 12: Election of the Office-Bearers 2015-2018

44. The Council was informed that, as per Article 7.2.4 of the ICID Constitution, the 3-year term of Office (2012-2015) of Vice Presidents Mr. Laurie C. Tollefson (Canada), Dr. Hüseyin Gündoğdu (Turkey) and Mr. François Brelle (France) would conclude at the end of the 66th IEC and its adjunct study tours.

45. The Council noted that in response to the Central Office's circulars inviting nominations from NCs for the positions of Vice President for the term 2015-2018, two nominations were received in the Central Office – Mr. Ian Makin (UK) and Prof. Abdelhafid Debbarh (Morocco) -- by the due date 16 June 2015.

46. The Council was told that the nomination of Prof. Dr. Charlotte de Fraiture was invited from The Netherlands National Committee under By-law 2.5 – Nomination by President, wherein the nomination can be received up to one month prior to the IEC meeting.

47. Based on the voting undertaken in accordance with ICID By-law 2.8 to decide the seniority of the Vice Presidents, the Council elected Prof. Dr. Charlotte de Fraiture (The Netherlands), Mr. Ian Makin (UK) and Prof. Abdelhafid Debbarh (Morocco) for a three year term 2015-2018 in that order of seniority. As per article 7.2.4 of ICID Constitution, the term of VPs elected at the 66th IEC meeting, shall begin at the conclusion of the present Council meeting and its appurtenant study tours and expire at the conclusion of the Council meeting and its appurtenant study tours in the year 2018.

IEC Minutes Item 13: Presentation of ICID Plaques

IEC Minutes Item 13.1: Retiring Vice Presidents

48. The citation plaques were presented to the three retiring Vice Presidents Mr. Laurie C. Tollefson (Canada), Dr. Hüseyin Gündoğdu (Turkey) and Mr. François Brelle (France) for their services to further ICID activities during their tenure 2012-2015.

IEC Minutes Item 13.2: Retiring Chairs of Workbodies

49. The retiring Chairpersons of Workbodies -- Dr. Gerhard R. Backeberg (South Africa), Chairman, TF-FIN (2009-2013), Mr. Peter S. Lee (United Kingdom), Chairman, WG-POVERTY (2010-2014) and Prof. Kim, Tai-Cheol (Korea), Convener, C-CONGR (2012-2014) – were honored with the presentation of citation plaques for their commendable guidance to the activities of the concerned work bodies.

IEC Minutes Item 14: Any other business by the permission of the Chair

50. The President declared the 66th IEC meeting closed.



Resolution IEC-1/66 [IEC Item 8.4, Para 28]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)****RESOLUTION IEC-1/66: 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 Abhyankar and Company; and

Considering the recommendation of the Management Board;

Decides Unanimously

1. That the following persons, institutions and companies be admitted as direct members of ICID in respective categories as recommended by the Direct Membership Administering Sub-Committee for the periods for which they have paid subscriptions.
 - (i) Md. Samiul Ahsan Talucder (Bangladesh)
 - (ii) Mr. Aytekin Turgay (Turkey)
 - (iii) Prof. Prashanta Kumar Bordoloi (India)
 - (iv) M/s Jain Irrigation Systems Ltd. (India)
2. That the National Committees of Czech Republic be debarred from participating in elections as they have failed to contribute ICID subscription for last two years in accordance with By-law 13.1.
3. To approve the Audited Accounts of ICID for the financial year 2014-15 as given in **Annex R1.1 (Annex 2 of PFC Agenda, page 261)**.
4. To approve the Revised Budget of ICID for the financial year 2015-16 and the Budget for the financial year 2016-17 as given in **Annex R1.2 (Annex 2 of PFC Agenda, page 264)**.
5. To approve the Registration Fee Structure for the WIF2, 4th African Regional Conference, 13th Irrigation and Drainage Workshop and 23rd Congress meetings as per **Annex R1.3** (Presentation slide of the report of Chair PFC).
6. To approve the appointment of M/s P.K. Chopra & Company as the Statutory Auditor for ICID for the period 2016-18.
7. To set up a Task Force to review the membership structure and annual membership subscription formulae.

Appreciates

1. The NC of Korea for contributing appropriate share of the registration fee for the 22nd ICID Congress and 65th IEC to the ICID Budget.
2. The Ministry of Water Resources, People's Republic of China for providing a grant of US\$ 58200 for carrying out various ICID activities during the Financial Year 2014-15.



Resolution IEC-2/66 [IEC Item 8.4, Para 28]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)****RESOLUTION IEC-2/66: SIGNATORY OF HSBC BANK ACCOUNT IN LONDON**

The 66th International Executive Council (hereinafter called 'Council') of the International Commission on Irrigation and Drainage at its meeting held in Montpellier, France this day, the 16th October, 2015, hereby resolves:

"That Mr. Avinash C. Tyagi, Secretary-General and Dr. Vijay K. Labhsetwar, Director be and hereby authorized jointly to sign or accept all cheques. The signing rule is two to sign".

"Resolved further that the bank be instructed to honour all cheques, and other orders drawn by and to accept and to credit to the account of ICID all moneys deposited with or owing by the bank or any account or accounts at any time kept or times kept or to be kept in the name of ICID and the amount of all cheque, notes, bills, other negotiable instruments, orders or receipt, provided they are endorsed/signed jointly by above named on behalf of the ICID and such signatures shall be sufficient authority to bind ICID in all transactions between the bank and the ICID including those specially referred to herein."

"Resolved further that a copy of Resolution and specimen signature of the above signatories, authorized to operate the account, be provided to the Bank."



Resolution IEC-3/66 [IEC Item 8.4, Para 28]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)****RESOLUTION IEC-3/66: 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 the reactivation of the National Committees of Sudan and Myanmar in accordance with By-law 13.5
2. To approve setting up of a Technical Support Unit (TSU) in ICID with a core group Chaired by President and consisting of Chair PCSO and PCTA, Chair ASWRG, Chair AFRWG and representatives contributing to the Capacity Development Fund as its members assisted by SG as per the concept note on the subject given in **Annex R3.1 (Annex 6 [Appendix VIII, SUPP Agenda Item 13, Para 37])**.
3. To approve setting up of ICID – Young Professional’s Forum (ICID-YPF) as per the concept note on the subject given in **Annex R3.2**.
4. To accept the Report of the Sub-Committee under PCTA to deliberate upon the Themes, Topics and Work plans of future ICID Congresses and World Irrigation Fora and to fix the broad topics and work plans for these events presented by the Task Team as given in **Annex R3.3, Annex R3.3A and Annex R3.3B**.
5. To approve the closure of TF-WWF7
6. To approve the establishment of the following WBs, with mandates as given in **Annex R3.4**
 - (i) Working Group on Irrigation Development and Management (WG-IDM)
 - (ii) Working Group on Capacity Development, Training and Education (WG-CDTE)
 - (iii) Working Group on Water Saving in Irrigated Areas (WG-WATS); and
 - (iv) Task Force to Guide ICID Inputs to World Water Forum 8 (TF-WWF8)
7. To approve the re-establishment of the following working groups with mandates as given in **Annex R3.4**
 - (i) Working Group on Environment (WG-ENV),
 - (ii) Working Group on Climate Change and Agricultural Water Management (WG-CLIMATE), and
 - (ii) Working Group on Sustainable On-Farm Irrigation System Development (WG-SON-FARM)
8. To approve the extension of WG-IDSST for one year upto 2016 and a Scoping Document be developed for the new WG.
9. To approve renaming of ‘International Micro Irrigation Symposium’ as ‘International Micro Irrigation Conference’.
10. To approve in principle organization of the 8th Asian Regional Conference in Nepal in 2018, the 69th IEC in Canada in 2018 and the 9th Micro Irrigation Conference in India in 2019/ 2020.
11. To approve setting up of Task Team to study the reasons responsible for the gradual withdrawals of NCs from Europe from the membership of ICID and other issues faced by these NCs.

Requests

1. MB to work out membership and TORs of the Core Group for overseeing working of TSU (**Para 2**)
2. MB to work out membership and TORs of the Task Team to review membership issue of European NCs (**Para 11**)



Resolution IEC-4/66 [IEC Item 9, Para 35]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)****RESOLUTION IEC-4/66: ICID VISION 2030 DOCUMENT****THE Council**

Considering the Report of the Consultative Group (CG) 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

1. To adopt the ICID Vision 2030 and the organization goals as illustrated in **Annex R4.1**
2. The Vision 2030 be brought out as a communication document, duly modified in view of the suggestions received from the National Committees and as discussed during IEC be brought out and disseminated to all the stakeholders.
3. To request the CG develop an Action Plan including review of structure and other organizational aspects required to achieve the goals of Vision 2030.

Requests

1. The Consultative Group to duly modify / make suitable changes to the ICID Vision 2030 Document in view of the suggestions received from National Committees and discussions during the 66th IEC meeting.
2. SG to widely disseminate ICID Vision 2030 to all its partners and stakeholders.
3. Management Board to take further action to develop strategies to implement the Vision 2030.



Resolution IEC-5/66 [IEC Item 10, Para 38]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)****RESOLUTION IEC-5/66: SCHEME FOR RECOGNITION OF
HERITAGE IRRIGATION STRUCTURES (HIS)****THE Council**

Considering the Report of the Task Team to work out Objectives, Guidelines and Procedures to select Historical Irrigation Structures, set up by the MB in August 2012 and the request of 65th IEC to revisit the Scheme in view of discussions at the WG-HIST and OBC,

Noting the endorsement of the Management Board,

Decides unanimously

1. To adopt the revised Scheme for Recognition of Heritage Irrigation Structures (HIS) as given in **Annex R5.1 (Annex 5, [IEC Item 10, Para 18 (page 27) of IEC agenda])**.

Requests

1. Secretary General to present a proposal at the next meeting of IEC to appropriately publicize the lessons learnt from these structures



AUDIT REPORT FOR THE YEAR ENDING 31 MARCH 2015**A. ABHYANKAR & COMPANY**
Chartered Accountants**International Executive Council**

International Commission on
Irrigation and Drainage
48 Nyaya Marg, Chanakyapuri
New Delhi 110 021

Dear Sir,

1. We have audited the attached Balance Sheet of International Commission on Irrigation and Drainage (ICID) as on 31st March, 2015, Income & Expenditure and Receipt & Payment Account for the year ending on that date.
2. These financial statements are the responsibility of the management. Our responsibility is to express an opinion on these financial statements based on our audit.
3. We conducted our audit in accordance with auditing standards generally accepted in India. Those Standards requires that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion. We report that :
 - (i) We have obtained all the information and explanation which, to the best of our knowledge and belief, were necessary for the purpose of our audit.
 - (ii) 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.
 - (iii) The Balance Sheet, Income & Expenditure Account and Receipt & Payment Account dealt with by this report, are in agreement with the books of account.
 - (iv) The Balance Sheet, Income & Expenditure Account and Receipt & Payment Account dealt with by this report, generally (if stated otherwise), comply with the accounting standards issued by the Institute of Chartered Accountants of India, so far as applicable.
 - (v) In our opinion and to the best of our information and according to the explanation given to us, the said accounts, read with the notes thereon, gives a true and fair view in conformity with the accounting principles generally accepted in India:
 - (a) In the case of the Balance Sheet, of the state of affairs of the ICID as on 31st March, 2015
 - (b) In the case of Receipt & Payment Account, of the receipts and payments for the year and
 - (c) In the case of the Income & Expenditure Account, of the excess of Income over Expenditure for the year ended on that date.

Yours faithfully,

Sd/-

For A. Abhyankar & Co.
Chartered Accountants
Firm Registration No-023961N

Place: New Delhi
Dated: 16th July, 2015

Aniruddha Abhyankar
Proprietor
M. No. F-077883

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE
BALANCE SHEET AS ON 31ST MARCH 2015

	2014-15 Amount INR	2013-14 Amount INR
ASSETS		
Property & Equipment	12,381,385	12,438,530
Receivables	12,495,808	9,070,255
Stock of Publications	273,600	510,125
Bank Balances & Cash in Hand	61,413,339	35,609,945
Subscription Accrued	2,815,942	-
Total Assets	89,380,074	57,628,855
LIABILITIES		
Gulhati Memorial Lecture Fund	335,603	443,477
General Fund	51,352,443	28,564,058
Gratuity Fund	1,964,010	1,847,061
Corpus Fund-WID Prizes	1,218,306	-
Special Fund Receipts	2,604,205	3,310,230
Security from Tenant	19,310,000	19,310,000
Subscription Received in Advance	2,598,300	4,154,029
Payables & Provisions	9,916,016	-
TDS and Work Tax Payable	81,191	-
Total Liabilities	89,380,074	57,628,855

Auditor's Report

Sd/-

For A. Abhyankar & Co.
Chartered Accountants
Firm Registration No-023961N

Place: New Delhi
Dated: 16th July, 2015

Aniruddha Abhyankar
Proprietor
M. No. F-077883

Sd/-
Aniruddha Abhyankar
Proprietor

Sd/-
Dr. Vijay K. Labhsetwar
Director

Sd/-
Avinash C. Tyagi
Secretary General

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE
RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR FROM 1ST APRIL 2014 TO 31ST MARCH 2015

	2014-15 Amount INR	2013-14 Amount INR
RECEIPTS		
Cash & Banks (balance brought forward)	35,609,945	35,466,948
Membership Subscriptions	11,449,326	14,365,733
Sale of Publications	1,493,594	908,372
Special Contribution to Budget	11,529,812	-
Interest on Fixed Deposits	2,699,715	3,724,392
Grant Received	4,299,686	3,575,000
Other Receipts	1,276,182	15,980,875
Rent and Provision of Services on Let Out Property	38,579,975	23,328,079
Income Tax Refund	-	1,326,278
Total	106,938,235	98,675,677
PAYMENTS		
Salaries and other incidentals	15,912,047	18,810,881
Compensation package for Secretary General	2,870,441	2,507,400
Superannuation Relief to Retired Employees	3,018,191	2,435,315
Professional & Other Services Charges	2,678,540	3,660,261
Repair & Maintenance	2,050,089	1,829,419
Taxes and Utilities	3,728,611	20,294,002
Rehabilitation & Refurnishing	5,243,976	-
Printing and Distribution	2,637,220	3,577,134
Conference Expenditure	1,392,295	619,894
Travelling Expenses	612,412	760,701
Grants utilized	3,464,055	1,815,479
Subscription to other organization	-	66,179
Others	144,396	171,885
Purchase of Fixed Assets	1,659,531	6,517,182
UNESCO IHE Online Course Sponsorship	113,092	-
Cash & Banks (balance carry forward)	61,413,339	35,609,945
Total	106,938,235	98,675,677

Auditor's Report

Sd/-

For A. Abhyankar & Co.

Chartered Accountants

Firm Registration No-023961N

Place: New Delhi
Dated: 16th July, 2015

Aniruddha Abhyankar
Proprietor
M. No. F-077883

Sd/-
Aniruddha Abhyankar
Proprietor

Sd/-
Dr. Vijay K. Labhsetwar
Director

Sd/-
Avinash C. Tyagi
Secretary General

**APPROVED REVISED BUDGET 2015-16, APPROVED BUDGET 2016-17,
PRELIMINARY BUDGET 2017-18 AND FORECAST BUDGET 2018-19**

		Approved Revised Budget 2015-16	Approved Budget 2016-17	Preliminary Budget 2017-18	Forecast Budget 2018-19
		₹	₹	₹	₹
I	RECEIPTS				
	1. Membership Subscriptions	15,116,014	15,595,554	15,612,209	15,630,529
	2. Sale of Publications	1,544,767	1,544,767	1,544,767	1,544,767
	3. Special Contribution to the Budget	3,720,000	8,396,000	7,458,600	3,534,000
	4. Interest on Fixed Deposits	2,714,216	3,223,887	2,856,179	2,725,160
	5. Other Receipts	3,911,915	1,654,934	3,129,170	715,005
	6. Rent and Maintenance Charges	39,992,103	44,504,356	49,263,920	49,263,920
	Total Receipts	66,999,015	74,919,498	79,864,844	73,413,380
II	EXPENDITURE				
	1. Compensation Package for SG	3,214,894	3,600,681	4,032,763	4,516,694
	2. Salaries	18,378,205	20,743,080	26,462,005	26,587,553
	3. Superannuation Relief to Retired Employees	3,380,374	3,786,019	4,240,341	4,749,182
	4. Service & Maintenance	5,254,200	5,543,120	5,849,432	6,218,875
	5. Taxes & Utilities	22,797,020	16,076,557	17,732,076	17,732,076
	6. Rehabilitation / Refurbishing of CO Building	1,000,000	2,500,000	0	0
	7. Printing, Purchase and Distribution of Publication	4,261,198	3,490,758	6,326,696	3,783,281
	8. Conference Expenditure	550,000	3,850,000	2,350,000	1,450,000
	9. Travel Expenditure	1,050,000	1,250,000	1,300,000	1,300,000
	10. Purchase of Office Equipment's	2,400,000	700,000	750,000	800,000
	11. Workshops and Training	2,000,000	2,000,000	2,000,000	2,000,000
	12. Other Expenditure	150,000	152,000	155,000	157,000
	Total Expenditure	64,435,891	63,692,214	71,198,313	69,294,662
	Surplus/(Deficit)	2,563,124	11,227,284	8,666,531	4,118,718
	Grants Receipts	0	0	0	0
	Grants Utilization	0	0	0	0



FEE STRUCTURE FOR ICID EVENTS IN 2016 AND 2017

Year	2016				2017			
Venue	Chiang Mai, Thailand		Cairo, Egypt		Ahvaz City, Iran		Mexico City, Mexico	
Event	67 th IEC & 2 nd World Irrigation Forum		4 th African Regional Conference		13 th International Drainage Workshop		68 th International Executive Council (EC) & 23 rd Congress	
	Nos.	Rate	Nos.	Rate	Nos.	Rate	Nos.	Rate
Full registration	400	\$750		\$500		\$500	500	\$800
Non-member fee	-	\$900		-		\$550		-
Young Professionals (International)	100	\$375		\$250		\$250	300	\$400
Young Professionals (Local)		-		\$100		-		-
Local/conference rate	400	\$180		-		-	100	\$500
Retired professionals		\$375		\$250		\$250		\$400
Accompanying Persons		\$300		\$200		\$250		\$300



TECHNICAL SUPPORT UNIT (TSU)**CONCEPT NOTE**

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 realized.
2. 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 of solution for 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.
3. Keeping in view the need of capacity building, education and awareness of technical staff working in the field of agriculture water management there is proposal to set up a working group catering to these needs (WG-CDTE).
4. As part of this WG-CDTE, it is proposed to set up a Technical Support Unit (TSU) with the overall objective to
“Undertake capacity development activities in the field of agriculture water management (AWM) in support of rural development”.
5. The broad scope of TSU would be to
 1. Coordinate capacity development programs of ICID;
 2. To liaise in developing a knowledge base in AWM with the help of ICID working groups, partner institutions and member countries;
 3. To support the member countries in
 - a general assessment of gaps in AWM capacities within the countries and suggest possible solutions
 - b developing feasibility reports for small and medium irrigation, drainage and flood management proposal,
 - c training assessment needs; and
 - d undertaking capacity development programmes
6. **Funding:** In order to ensure smooth functioning of TSU it is suggested to establish a **Capacity Development Fund** that would be supported by member countries on a voluntary basis.
7. **Mechanism:** Technical support unit, which is proposed to be sub-set of WG-CDTE, will consist of distributed network of expert volunteers who commit to dedicate a maximum of ten man days to the TSU activities with a coordination unit within the Central Office that would help locate these experts. In addition, Members or partner institutions would be requested to depute personnel to the coordination unit of TSU located in Central Office from time to time, as required.
8. A **Core Group** will have to set up to finalize the work program of TSU and review and monitor progress of activities of TSU. Core group may consist of President ICID, Chair of PCTA and PCSO, Chair of AFRWG and ASRWG, Chair of WG-CDTE (when established), nominees of the contributing Members and partners and Secretary General, ICID as Convener.



**ICID – YOUNG PROFESSIONALS FORUM (ICID-YPF)
CONCEPT NOTE**

1. Background

- 1.1 At the 65th International Executive Council (IEC) held at Gwangju in September 2014, the Council approved establishing an ICID-Young Professional's Forum (ICID-YPF) with open membership. The Council suggested that ICID Central Office develop rules and assist the organization of Young Professionals Forum.
- 1.2 This note is prepared to lay down the concept and working rules for this Forum. It is expected that the establishment of this Forum may, in the course of its development require adjustment of some of the by-laws, which will be presented separately after the conceptual and administrative framework is agreed to.

2. The Context

- 2.1 Increasing food production through sustainable use of water will, among others, require large investments in infrastructures, research and development, that are compatible with the preservation of ecosystems and can adapt to climate change. The sector will need to increase its water use efficiency by reducing water losses and, most importantly, increase crop productivity with respect to water.
- 2.2 The Asia and Pacific region has seen development of large irrigation infrastructure in the last fifty years which has helped in creating food security and fueled growth. However, these systems are beset with the low efficiencies. The old public irrigation department in these countries are saddled with old and ill-maintained large irrigation systems and aging staff. The in-service professionals need to be brought to pace with the rapid technological developments. Given the complexity of development process, irrigation and drainage professionals need exposure to the social, environmental and other disciplines that influence the agriculture water management. There is need for greater sharing of experiences and tools particularly related to social, economic and environmental aspects.
- 2.3 Given the fast changing development scenario and the exponential growth in technology, coping with these fast changes is a tough proposition. In addition to learning from past experiences, what definitely is required under the increasing complexities of supply, demand and uncertainties, is a breed of professionals that approach the irrigation and drainage issues with a more open mind and accepts the multi-dimensional aspects of the water sector and are willing to undertake their activities with an inter-disciplinary approach? However, the number of young professionals joining the water sector is dwindling by the year.

3. Objective of ICID-YPF

- 3.1 Despite the challenging development scenarios the sector is suffering from a lack of interest from the young professionals as they find the career in the sector uninteresting with little growth potential. This lack of interest in the sector among the new generation has resulted in the closure of irrigation and drainage departments in academic institutions around the world. The generation X has to be attracted to the sector by making the careers in irrigation and drainage sector more interesting and challenging. Information has to reach them at their finger press, which they are used to in the era of social media.
- 3.2 With these long-term objectives in view, ICID has established **ICID Young Professional's Forum (ICID-YPF)** that provides an international platform to young engineers/scientists for their professional development in the areas of irrigation, drainage, flood management and environment. The Forum provides an opportunity to young professionals to engage, network and share their experiences and also learn from the experiences of senior engineers (Mentors) in the field. The main objectives of establishing the Forum are to:
 - (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,
 - (e) Maintain and enhance links with national and international youth having interests in water related subjects or the activities, relevant to ICID objectives.

4. Membership

- 4.1 Person desirous of becoming member of ICID-YPF will have to fulfill following eligibility criteria:
- (a) Person should be any professional below the age of 40 years,
 - (b) working or pursuing studies in the areas of agriculture water management and/or flood management disciplines,
 - (c) The membership will have to be endorsed by their organization where working/ academic institute where pursuing higher studies/an ICID National Committee/ an International ICID Partner Institution/ a direct institutional members of ICID.
- 4.2 The Forum will essentially be an e-forum with most of its activities being met through remote. Members would have the opportunity to interact with each other through a Linked-in platform moderated by experts. The network will be different from other such platforms as the active members of the Forum would have the opportunity to interact face to face with each other at the time of the ICID events.
- 4.3 The activities of the Forum will be monitored and overseen by a group of volunteer young professionals – one coordinator and five joint coordinators - that will link the Forum with ICID network.

5. Professional Advantages

The members of the Forum will be able to:

- (a) **Interact** with likeminded young professionals, researchers, and practitioners involved at international level and share resources;
- (b) **Develop relations** for peer to peer learning from around the world and enhance self-potential;
- (c) **Bridge the knowledge gap** between theory and practice by attending the global meetings of ICID and listening to senior professionals;
- (d) **Stay informed** on the latest knowledge in the area of irrigation and drainage through ICID publications: ICID News, News Update and e-bulletin, all available on-line;
- (e) **Benefit** from the latest scientific knowledge available through ICID Journal on Irrigation and Drainage.
- (f) **Access** the resources available in the Integrated Library Management System (ILMS)
- (g) Keep up-to-date on best practices and trends in the field;
- (h) **Advance** professional skills by way of participating in ICID training workshops;
- (i) **Better appreciate** different viewpoints, approaches and cultures from around the world; and
- (j) **Enhance** ability to plan careers in the irrigation sector.

6. Benefits for Young Professionals

- (a) Membership of two WGs of choice subject to their active participation;
- (b) Liberal concession in registration fee (about 50%) in World Irrigation Forum and ICID's Congress, conferences and events;
- (c) Eligible for WatSave Awards: one category (out of four categories) of awards, exclusively dedicated to Young Professionals (YPs);
- (d) Free on-line subscription of the ICID Journal on Irrigation and Drainage to fifty YPs subject to their active participation;
- (e) Eligible for ICID scholarship for participation in ICID events;
- (f) Participate in Sessions/ RoundTable discussions especially organized for young professionals;
- (g) Discounted pricing on educational programs - online learning, webinars, and conferences

7. Broad Rules and Regulation

Broad conditions/rules and regulation for ICID-YPF will be as follows:

- (a) Professional willing to become member of ICID-YPF will have to apply in the prescribed form with ID and age proof.
- (b) Professional will undertake to follow the core values of ICID and work towards fulfilling its vision.

- (c) ICID Central Office staff will review application and approve membership and support the experts in moderating the forum and various other activities
- (d) The Forum members will chose a coordinator and five joint-coordinators to manage affair of YPF.
- (e) ICID CO will facilitate election of coordinator and joint coordinators. ICID will identify three most active members, out of which one will be elected as coordinator by YPF members through online poll organized by ICID. For joint coordinators 10 active members will be identified out of which 5 will be elected as joint coordinators. YPF members may review this process and may evolve better process of electing coordinator and joint coordinators.
- (f) Terms of coordinator and joint coordinators will be maximum for a period of 3 years. After three years one of the joint coordinators can be elected as coordinator to ensure continuity.
- (g) ICID will support participation of coordinator under YP scholarship to ICID annual event to brief about activities of the YPF to permanent committees etc.
- (h) Member of forum will be allowed to get online certificate as YPF member after 5 years of active participation in the Forum (or on attaining age of 40).



**THEMES AND SUB-THEMES FOR
UPCOMING INTERNATIONAL CONGRESSES AND
WORLD IRRIGATION FORA**

XXIII CONGRESS, 2017, MEXICO CITY, MEXICO

- Theme: Modernizing Irrigation and Drainage for a new Green Revolution
- Question 60: *Water Productivity: Revisiting the concepts in light of water, energy and food nexus*
- Question 61: *State of knowledge of irrigation techniques and practicalities within given socio-economic settings*

XXIV CONGRESS, 2020 (PROVISIONAL)

- Theme: Innovation and research in agricultural water management to achieve sustainable development goals
- Question 62: *What role can information and communication technology play in travelling the last mile?*
- Question 63: *What role is played by multi-disciplinary dialogue to achieve sustainable development goals?*

SECOND WORLD IRRIGATION FORUM, 2016, CHIANG MAI, THAILAND

- Theme: Water management in a changing world: Role of Irrigation for sustainable food production
- Sub-theme 1: *Key actors in balancing water, food, energy and ecology*
- Sub-theme 2: *Managing impacts of climatic extremes with focus on floods and droughts*
- Sub-theme 3: *Key and smart actions to alleviate hunger and poverty through irrigation and drainage*

THIRD WORLD IRRIGATION FORUM, 2019 (PROVISIONAL)

- Theme: Development for water, food and nutrition security in a competitive environment:
- Sub-Theme 1: *Enabling policy environment for water, food and energy;*
- Sub-Theme 2: *Role of civil society and NGOs with focus on farmers and extension facilities;*
- Sub-Theme 3: *Improving agricultural water productivity with focus on rural transformation.*

Standard Format for ICID Congress and IEC Meeting - Tentative Program (DRAFT) (Version 9 Sept. 2015)											
Dates, Place and Country											
Date / Year	Date / Year	Date / Year	Date / Year	Date / Year	Date / Year	Date / Year	Date / Year	Date / Year	Date / Year	Date / Year	
Day / Hrs.		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7			
All Day 08.30-18.00	Registration	Registration / Exhibition	Registration / Exhibition	Registration / Exhibition	Registration / Exhibition	Exhibition					
09.00-10.30		Opening Ceremony	Congress Question -- Congress Question -- Congress Question --	Plenary IEC	WG-1/1 WG-2/1 WG-3/1	WG-5/1 WG-6/1 WG-7/1	WG-12/1 WG-13/1 WG-14/1	WG-21/1 WG-22/1 WG-23/1	PCTA YP-Training Workshop	IEC	
10.30-11.00			SC		Health Break						
11.00-12.30		Opening Plenary N.D. Gulhati Memorial Lecture GR Presentation (Q.) GR Presentation (Q.)	Congress Question -- Congress Question -- Congress Question --	Special Session -I (1/2) International Workshop -II (1/2) Sub-Committee/ Themes	WG-4/1 WG-8/1	WG-5/2 WG-6/2 WG-7/2	WG-12/2 WG-13/2 WG-14/2	WG-21/2 WG-22/2 WG-23/2	PCTA YP-Training Workshop	IEC	
12.30-13.30		LUNCH BREAK									
13.30-15.00		Symposium-I (1/2) International Workshop -I (1/2)	Congress Question -- Congress Question -- Congress Question --	Special Session -I (2/2) International Workshop -II (2/2) PFC MT-JOUR	WG-4/2 WG-8/2	WG-15/1 WG-16/1 WG-19/1	WG-17/1 WG-18/1 WG-20/1	WG-24/1 WG-25/1 WG-26/1	WG-9/1 WG-10/1 WG-11/1	PCTA YP-Training Workshop	
15.00-15.30		Symposium -I (2/2)									
15.30-17.00		International Workshop -I (2/2) Meeting with YPs ----- Meeting with GR/PEs -----	Congress Question -- Congress Question -- Congress Question --	Wrap-up of ICID Congress Congress Question ____ Congress Question ____		WG-15/2 WG-16/2 WG-19/2	WG-17/2 WG-18/2 WG-20/2	WG-24/2 WG-25/2 WG-26/2	WG-9/2 WG-10/2 WG-11/2	PCTA YP-Training Closing	
17.00-18.00	MB-I			Mtg. NCs - Office Bearers		OBC Meeting				MB-II	
18.00-19.00											
19.00-21.00		Welcome Dinner			Reception				Farewell Dinner		
			Registration /Exhibition			YP-Training WS				Tours	
			Congress							____ Tours for accompanying persons	
			IEC and related meetings			International Workshop				____ Post-Congress tours	
			Symposium			Staff Committee (SC)					
			Special Session			Management Board (MB)					
						MT-JOUR					
						Sub-committee/themes					
Note: All WG meetings will be of 180 minutes duration unless otherwise mentioned											
All technical / cultural tours will be organized after closing of the event											

Standard Format for ICID World Irrigation Forum (WIF) & IEC, Tentative Programme (DRAFT) (version 9th Sept. 2015)													
Dates, Place and Country													
Date/Year	Date/Year	Date/Year	Date/Year	Date/Year	Date/Year	Date/Year	Date/Year	Date/Year	Date/Year				
Day / Hrs	Day 1		Day 2		Day 3		Day 4		Day 5				
All Day 08.30-18.00	Registration	Registration/Exhibition	Registration/Exhibition	Registration/Exhibition	Registration/Exhibition	Registration/Exhibition	Registration/Exhibition	Registration/Exhibition	Registration	Registration			
09.00-10.30	Registration	WIF INAUGURATION (Time→)	PLENARY SESSION 3	3rd Parallel Session Sub- Theme 3	WG-1/1	WG-4/1	PFC		PCTA	IEC			
			Sub Theme 2. _____	Panel Discussion (_____)	WG-2/1	WG-5/1	WG-7/1	WG-9/1					
			1st Parallel Session sub-Theme 1	Side Event(s) / Special Sessions	WG-3/1	WG-6/1	WG-8/1	WG-10/1					
			Side Event(s) / Special Sessions	WG-25/1	WG-26/1	Workshop-I (1/2)							
			Side Event(s) / Special Sessions	WG-11/1	WG-12/1					YP-Training Workshop			
10.30-11.00				SC Meeting*	H E A L T H B R E A K								
11.00-12.30				PLENARY SESSION 4	4th Parallel Session Sub- Theme 3	WG-1/2	WG-4/2	PFC		PCTA	IEC		
			Sub-Theme 3. _____	Panel Discussion (_____)	WG-2/2	WG-5/2	WG-7/2	WG-9/2					
			2nd Parallel Session Sub-Theme 1	Side Event(s) / Special Sessions	WG-3/2	WG-6/2	WG-8/2	WG-10/2					
			1st Parallel Session Sub-Theme 2	Side Event(s) / Special Sessions	Workshop-I (2/2)		WG-17/1	WG-18/1					
	Side Event(s) / Special Sessions	WG-25/2	WG-26/2										
		WG-11/2	WG-12/2					YP-Training Workshop					
12.30-13.30	L U N C H B R E A K												
13.30-15.00	Registration	Main Theme: _____	PLENARY SESSION 1	3rd Parallel Session Sub-Theme 1	PLENARY SESSION 5 (Integrating Session)	WG-13/1	WG-15/1	PCSO-I		PCTA	IEC		
			2nd Parallel Session Sub- Theme 2	WG-14/1		WG-16/1	WG-17/2	WG-18/2					
			1st Parallel Session Sub- Theme 3	TF-19/1		WG-20/1	WG-21/1	WG-23/1					
			Side Event(s) / Special Sessions	Workshop_II (1/2)		WG-22/1	WG-24/1			YP-Training Workshop			
			Side Event(s) / Special Sessions										
15.00-15.30		MT-JOUR Meeting*	H E A L T H B R E A K										
15.30-17.00	Registration	ROUND TABLE 1 – (Time→)	PLENARY SESSION 2	3rd Parallel Session Sub-Theme 2	WIF THEMATIC WRAP UP	WG-13/2	WG-15/2	PCSO-II		PCTA	IEC		
			2nd Parallel Session Sub-Theme 3	WG-14/2		WG-16/2	WG-21/2	WG-23/2					
			4th Parallel Session Sub- Theme 1	TF-19/2		WG-20/2	WG-22/2	WG-24/2					
			Side Event(s) / Special Sessions	Workshop_II (2/2)									
17.00-18.30	MB* 1	Round Table 2 - (Time:_____)	IEC OPENING PLENARY	NCs + VPs Meeting*	OBC Meeting*			YP-Training Workshop	MB* 2				
19.00-21.00		WELCOME DINNER	R E C E P T I O N*				FAREWELL DINNER						
		World Irrigation Forum		Themes	Knowledge	WIF INAUGURATION: Dignitaries + Head of one of UN Organisations							
		IEC and related meetings			Basin	WIF THEMATIC WRAP-UP: Future of WIF + Conclusions and Recommendations							
					Schemes	Side Events/ Special Sessions: Organised by any of our partners subject to approval by the host Country / Steering Committee							
					On-Farm	Workshop 1, 2, 3 - ICID International Workshops				Tours			
		*By Invitation Only				YP-Training Workshop				____Tours for accompanying			
										____Post-WIF tours			
						Note: All WG meetings will be of 180 minutes duration unless otherwise mentioned							
						All technical / cultural tours will be organized after closing of the event							

**WORKBODIES MANDATES OF
NEWLY ESTABLISHED /RE-ESTABLISHED**

I. NEWLY ESTABLISHED WORKBODIES WITH MANDATES

A. Working Group on Irrigation Development and Management (WG-IDM)

- (a) water resource governance and integrated water resource management;
- (b) assessment of irrigation development potentials;
- (c) assessment of water demand;
- (d) development of water resources and economic scarcity of wat & 7er.
- (e) social drivers and resistances to development of irrigation and progress in water management;
- (f) water balance approach in irrigation (and other ancillary uses);
- (g) management of multiple water resource (conjunctive use of surface and groundwater)
- (h) management of multi-use water service;
- (i) performance evaluation of irrigation schemes and benchmarking;
- (j) ways towards cost reduction alongside with performance improvement

B. Working Group on Capacity Development, Training and Education (WG-CDTE)

- (a) Coordinate and guide the knowledge management activities of the Commission and the capacity development activities by various WGs.
- (b) Compile the status of training and educational programmes offered in different regions,
- (c) Compile the Educational Programs being offered in Irrigation and Drainage in different regions;
- (d) 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;
- (e) Explore the scope of use of IT in capacity development including distant learning, and implement where feasible;
- (f) Make available various tools required for sustainable development;
- (g) Oversee the establishment and functioning of a Technical Support Unit for supporting NCs; and
- (h) Facilitate the process of balancing education and training requirements, and provision and training services.

C. Working Group on Water Saving in Irrigated Areas (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.

D. Task Force to Guide ICID Inputs to World Water Forum 8 (TF-WWF8)

- (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 visibility in World Water Council.

II. RE-CONSTITUTED WORKBODIES WITH MANDATES**E. Working Group on Environment (WG-ENV)**

- (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.

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

- (a) To share the information about prediction of the global and regional climate change and climate variability.
- (b) To explore and analyze the implications of climate change and climate variability for agricultural water management including irrigation, drainage, and flood control.
- (c) To promote archiving useful information and case studies on climate change for practical use in improved impact assessment and adaptation development.
- (d) To enhance discussion on climate change and water management at national and regional scales among the stakeholders including academician, practitioners, decision makers, media as well as farmers and water users in a region.
- (e) To join the international dialogue on Climate change and water management.

G. Working Group on Sustainable On-Farm Irrigation System Development (WG-SON-FARM)

- (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.



ICID VISION 2030: VISION, MISSION AND ORGANIZATION GOALS

VISION

Water secure world free of poverty and hunger through sustainable rural development

MISSION

Working together towards sustainable agriculture water management through inter-disciplinary approaches to economically viable, socially acceptable and environmentally sound irrigation, drainage and flood management.

SIX ORGANISATIONAL GOALS TO REALISE VISION

1. Enable higher crop productivity with less water and energy

ICID to advocate with the national governments and funding agencies to make strategic choices that favour increased profitability and productivity in energy efficient manner through sustainable agricultural water management.

2. Be a catalyst for change in policies and practices

ICID to provide guidance to water policy analysts on experiences with the modelling principals and latest tools for simulating development scenarios to generate knowledge which can serve as catalyst for policy changes.

3. Facilitate exchange of information, knowledge and technology

ICID to work towards exchange of information, knowledge and new technologies, duly recognizing the local wisdom, in order to facilitate analysis of trade-offs to maintain the economic efficiency of agricultural production and minimising the adverse environmental impacts.

4. Enable cross disciplinary and inter-sectoral engagement

ICID network would make available the required information in respect of irrigation, drainage and flood management to all the relevant stakeholders in the language suitable for their appreciation. Where required, platform for inter-disciplinary networking would be facilitated for dialogues between various groups.

5. Encourage research and support development of tools to extend innovation into field practices

ICID network would encourage research and provide technical support on the latest innovations available in the agriculture water domain to the government and non-governmental entities to help in the outreach into rural communities.

6. Facilitate capacity development

ICID would work towards training and fostering young professionals, continuous training of professionals, promoting irrigation and drainage as relevant academic topics in education and training within the context of integrated land and water management and will foster closer connections with various stakeholders including farmers through national committees.



REVISED SCHEME FOR RECOGNITION OF 'HERITAGE IRRIGATION STRUCTURES (HIS)'

1. Background

- 1.1 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. Accordingly, a Task Team comprising of the following members, was set up to work out objectives, guidelines and procedures to select the historical irrigation structures. The Scheme was discussed during the meeting of WG-HIST at 65th IEC meeting. The members suggested changes in the scope of the Scheme, The present Scheme has been revised and updated to include both the old operational irrigation structures as well as structures that have primarily archival value.

2. Objective

- 2.1 It is proposed that a historical irrigation and/or drainage structure fulfilling the criterion laid down in this document shall be recognized as "Heritage Irrigation Structure" (HIS). The main objectives of recognition as a "Heritage Irrigation Structures" are:
- (a) Tracing the history of and understanding the evolution of irrigation in the civilizations across the world.
 - (b) To select and collect information on historical irrigation structures from around the world, understand their significant achievements and gather knowledge about the unique features that have sustained the project for such a long period;
 - (c) To learn the philosophy and wisdom on sustainable irrigation from these structures; and
 - (d) To protect/preserve these historical irrigation structures

3. Scope

- 3.1 The type of the structures or facilities to be considered for recognition as Heritage Irrigation Structures shall fulfil following criterion:
- (a) The structure shall be more than 100 years old;
 - (b) The structures shall fall under one of the following categories:
 - (i) Dams (operational largely for irrigation purpose),
 - (ii) Water storage structures such as tanks for irrigation,
 - (iii) Barrages and other water diversion structures,
 - (iv) Canal Systems,
 - (v) Old waterwheels,
 - (vi) Old shadouf,
 - (vii) Agriculture drainage structures,
 - (viii) Any site or structure functionally related to present or past agricultural water management activity.

4. Criterion

- 4.1 The structure recognized as a Heritage Irrigation Structure should fulfill one or more of the following criterion.
- (a) The structure should represent a milestone / turning points in development of irrigated agriculture and should bear an exceptional testimony to development of agriculture and increase in food production along with the improvement of economic condition of farmers;
 - (b) The structure that was ahead of its times in terms of project formulation, engineering design, construction techniques, dimensions of the structure itself, quantum of water diverted, and size of the command; [any one or more of these]
 - (c) Must have made outstanding contribution to enhancing food production, livelihood opportunities, rural prosperity, and poverty alleviation in a region;
 - (d) Was innovative in its ideas at the time of its construction;

- (e) Contributed to the evolution of efficient and contemporary engineering theories and practices;
- (f) Is an example of attention to environmental aspects in its design and construction;
- (g) Was an example of engineering marvel or excellence at the time of its construction;
- (h) Was unique in some positive and constructive way;
- (i) Bears the stamp of a cultural tradition or a civilization of past the past;

4.2 The structures fulfilling the above laid criterion will be classified into Lists:

- (a) **List A** would include those structures which are still operational and present an outstanding example of sustainable Operation & Management over a long period of time;
- (b) **List B** would include those structures which essentially have archival value and are no more functional

5. What does listing as an ICID Heritage Irrigation Structure mean?

5.1 The process of documentation, recognition and appropriate management of the Heritage Irrigation Structures will benefit the irrigation and drainage fraternity as well as the society in general by providing:

- (a) Understanding of the factors that make the heritage structures sustainable and learn lessons there from;
- (b) Education opportunity for professionals, students and general public; and

5.2 For UNESCO World Heritage Sites, inclusion means maintaining status quo forever. But it would be incorrect to stipulate the same for irrigation structure, as the people have the right to replace older structure with more efficient ones for better water use efficiency. Recognition as an HIS would be used to draw attention of the concerned governments to provide sufficient resources to maintain the HISs. ICID may provide small scale technical guidance to the project authority through a team of experts from ICID for its further sustainability, conservation and safe management as long as possible. ICID through various kinds of published material (Coffee table publications, web pages etc) should bring these HIS into the public knowledge and the role they have played in achieving food security.

6. Procedure

6.1 A historical irrigation and drainage structure fulfilling the criterion laid under section 4, based on the recommendation of the Jury to be constituted following the guidelines, as presented below, will be approved by the International Executive Council to be recognized as Heritage Irrigation Structure (HIS) that will be included in an “**ICID Register of Heritage Irrigation Structures**” and presenting a “**Heritage Irrigation Structure**” Plaque citing the salient features of the HIS. The Plaque will be awarded to the National Committees for onward transmission to the authorities responsible for the running and maintenance of the structure for displaying prominently on the body of the structure. The ICID Register of HIS would be publicized through ICID media channels.

6.2 The National Committee should report the current status of registered HIS site to ICID, after 5 years of registration.

6.3 Application

6.3.1 Any National Committee/Committee of ICID can nominate or send a proposal for recognizing historical irrigation structures meeting the criteria prescribed below, in the format prescribed at **Annexure**. The NC shall obtain a ‘letter of support’ from the relevant authority (ies).

6.4 Jury

6.4.1 The President shall constitute a Panel of Judges, broadly following the composition below for adjudication with the objective to provide recognition to Heritage Irrigation Structures:

Chairman, PCSO	- Chairman
Chairman/Ex-Chair, WG-HIST	- Member
Nominees from 3 NCs of ICID	- as Members
Secretary General, ICID	- Member-Secretary

6.5 Call for nomination

6.5.1 The nomination process for recognition of Heritage Irrigation Structures is open ended and the National Committees desirous of submitting a nomination can fill in the required information in the Nomination Form as prescribed in Annexure A. The nomination forms received by 30th June every year will be processed together and presented to the following Executive Council meeting after due processing.

6.6 Financial

6.6.1 ICID will seek to create a fund to meet the requirements of resources for:

- (a) Processing the applications,
- (b) Providing certain technical support to the HIS for maintaining the structure in good condition,
- (c) Developing material for dissemination of HIS, and
- (d) Bringing out publications based on the lessons learnt.

6.7 Contact

6.7.1 The ICID Central Office may be contacted for further information on the Recognition of HIS,

Secretary General, ICID
48 Nyaya Marg, Chanakyapuri
New Delhi 110021
Tel: +91-11-26116837, 2611 5679, 2467 9532, Fax: +91-11-26115962
E-mail: icid@icid.org, Website: www.icid.org



Annexure (Annex R5.1, para 6.3.1)

**ICID REGISTER OF HERITAGE IRRIGATION STRUCTURE
NOMINATION FORM**

(Note: The information provided herein can be used by ICID to inform, market and give publicity to the HIS included in the ICID Register of World Heritage Irrigation Structures through various dissemination mechanism, giving due acknowledgement to the National Committee and the owner organization.)

1. Details of the Irrigation Structure Nominated

(Separate form should be submitted for each nominated structure)

- (a) Name:
- (b) The year of commissioning:
- (c) Area Irrigated/ drained:
- (d) Geographical Coordinates:
- (e) River basin/ sub-basin where located:
- (f) Name of the Nominating National Committee/Committee:

2. Management Details of the HIS:

- (i) Ownership:
 - (a) Name of organization
 - (b) Address:
- (ii) Name and contact details of Official(s) managing the nominated structure
- (iii) Present source of fund for Operation and Maintenance of the nominated structure (For List A structures)
- (iv) Present source of fund for Maintenance of the nominated structure (For List B structures)

3. Description giving Salient Features of the nominated structure

(Provide in a separate sheet in 500 words. Also provide Maps/ Sketch /Plans, if available showing various components, boundary, jurisdiction of the project area (to be attached))

4. Justification for nomination:

- (a) Criteria which the nominated structure fulfils and how (Please provide a write up of not more than 1000 words one or more criteria that the structure fulfils)
- (b) Statement on the nominated structure’s engineering utility as on date vis a vis its designed utility. (For including in List A)
- (c) Statement on the nominated structure’s engineering utility at the time it was functional, and details of the overall project of which it formed an essential part. (For including in List B)

5. Present state of Conservation

(Enumerate and describe factors that are affecting or have affected the utility of the nominated structure in the past e.g. Encroachment, Suitability in present conditions, pollution, natural disaster such as floods, earthquake, visitors/tourism pressure etc.) (Max 500 words)

6. Documents attached

- (a) Support letter (s) from the relevant local/national authorities (Essential)
- (b) Document providing project description,
- (c) Document/ Report enumerating benefits accrued from the project since its inception
- (d) Project photographs old as well as the latest
- (e) Audio visual materials and
- (f) Inventory of project property,
- (g) Bibliography etc.

(In case the documents are too bulky, please provide electronic versions) (Scanned etc.)

7. Certification by the National Committee/Committee

(i) Authentication:

- (a) It is certified that the above information is correct to the best of our knowledge and the relevant institutions/departments have been contacted or informed about this nomination. (Concerned Archeological Department/Agency or maintaining organization in case of LIST B)
- (b) National Committee will undertake the actions required to disseminate the information befitting the listed Heritage Irrigation Structure.

(ii) No Objection certificate:

We have no objection to ICID using the information provided with this nomination form for marketing and to give publicity to the historical irrigation structure nominated.

- (a) Signatures
Chairman / Secretary of Nominating
National Committee / Committee
- (b) Name
- (c) Address
.....
.....
- (d) Seal



**List of Participants at the
66TH INTERNATIONAL EXECUTIVE COUNCIL (IEC) MEETING
16 October 2015, Montpellier, France**

(a) OFFICE BEARERS**President**

1. Dr. S. Nairizi (Iran)

Vice Presidents

2. Mr. Laurie C. Tollefson (Canada)
3. Dr. Huseyin GÜNDÖĞDU (Turkey)
4. Mr. François Brelle (France)
5. Mr. Kadhim Mohsin Ahmed (Iraq)
6. Dr. Mohamed Abd-El-Moneim Wahba (Egypt)
7. Dr. Ding Kunlun (China)
8. Mr. Bong Hoon Lee (Korea)

Secretary General

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

(b) CHAIRPERSONS OF PERMANENT COMMITTEES

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

(c) PAST PRESIDENTS

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

(d) PAST VICE PRESIDENTS

1. Dr. Karim Shiati (Iran)
2. Mr. Shinsuke Ota (Japan)
3. Dr. Laszlo G. Hayde (Hungary)
4. Mr. Adama SANGARE (Mali)
5. Dr. A. Hafied A. Gany (Indonesia)
6. Dr. Ragab Ragab (United Kingdom)
7. Mr. Larry D. Stephens (USA)
8. Mr. Franklin E. Dimick (USA)

(e) NATIONAL COMMITTEES / COMMITTEE

- | | |
|---|----------------|
| 1. Mr. Stephen Mills; Mr. Clarke Ballard | Australia |
| 2. M. COULIBALY Remi, M. OUANGO D. François | Burkina Faso |
| 3. Mr. Laurie C. Tollefson | Canada |
| 4. Mr. Tchouadan Kadjonga | Chad |
| 5. Dr. Ding Kunlun | China |
| 6. Mr. Kuang-Ming Chuang | Chinese Taipei |
| 7. Dr. Mohamed Abd-El-Moneim Wahba | Egypt |
| 8. Mr. Mati Tonismae | Estonia |
| 9. Mr. François Brelle | France |
| 10. Dr. Sándor Szalai; Dr. Laszlo G. Hayde | Hungary |
| 11. Mr. Saiful Mahdi | Indonesia |

12. Mr. Rahim Maidani	Iran
13. Mr. Kadhim Mohsin Ahmed	Iraq
14. Dr. Marco Arcieri	Italy
15. Dr. Yohei SATO	Japan
16. Mr. Joongdae CHOL; Ms. GONG Ju	Korea
17. Ir. Hj. Mat Hussin bin Ghani	Malaysia
18. Mme. KOUYATE Goundo SISSOKO; Mr. Adama SANGARE	Mali
19. Prof. Dr. Luis Rendón Pimentel	Mexico
20. Dr. Abdelhafid Debbarh	Morocco
21. Mr. Madhav Belbase	Nepal
22. Mr. Moussa Amadou	Niger
23. Mr. Dickson Ahagbujie; Engr. Muhammad Sani Bala	Nigeria
24. Dr. (Mrs.) Irena G. Bondarik	Russia
25. Dr. Sylvester Mpandeli; Mr. Felix B. Reinders	South Africa
26. Mr. Bakhrom Gafarov	Tajikistan
27. Mr. Satit Maneepai; Dr. Somkiat Prajamwong	Thailand
28. Prof. Dr. Charlotte de Fraiture	The Netherlands
29. Mr. Hasan Basri Yuksel	Turkey
30. Dr. Ragab Ragab; Mr. Ian W. Makin	United Kingdom
31. Mr. Larry D. Stephens; Mr. Franklin E. Dimick	USA
32. Mr. Shukhzat Mukhamedianov	Uzbekistan

(f) OBSERVERS

1. Mr. Hannes Puu (Estonia)
2. Mr. Ismail Widapi (Indonesia)
3. Mr. Alireza Salamat (Iran)
4. Mr. Kenichi UNO (Japan)
5. Mr. Mohd. Razali Bin Mohd. Nazri (Malaysia)
6. Mr. Waldo Ojeda; Ms Patricia Herrera Ascencio (Mexico)



**PRESENTATION BY
SOUTH AFRICAN NATIONAL COMMITTEE (SANCID)¹**

Brief Outline

1. Membership structure of South African National Committee on Irrigation and Drainage (SANCID)
 - 1.1 Broad basing of National Committee (NC)
 - 1.2 Activities
 - 1.3 Publications
2. SANCID Participation in ICID Activities
 - 2.1 Participation in IECs, ICID Congresses, Workshops and Regional Conferences
 - 2.2 Contribution to ICID organizational work
 - 2.3 Articles Papers published in ICID Journal "Irrigation and Drainage"
 - 2.4 ICID WatSave Awards
3. Agricultural Water Management in South Africa
 - 3.1 Present status
 - 3.2 Irrigation, drainage and flood management
 - 3.3 Challenges and issues over the next 10 years
4. New major developments or projects with interesting features



¹ For detailed write up and PowerPoint presentation, please visit the link: <http://www.icid.org/sancid_presentation_2015..pdf>

ICID REGISTER OF HERITAGE IRRIGATION STRUCTURES (HIS)**I. LIST OF IRRIGATION STRUCTURES APPROVED FOR INCLUSION IN ICID REGISTER****A. China**

1. **Quebei Pond** located in the middle reach of the Huai River, Anhui Province, People's Republic of China
2. **Tuoshan Weir** located in the Yin River Sub-Basin of the Fenghua River Basin, Zhejiang Province, People's Republic of China
3. **Zhuji Shadoof Irrigation System** located in the Huangtan Brook Sub-Basin of the Puyang River Basin, Zhejiang Province, People's Republic of China

B. Japan

1. **Uwae Irrigation Canal** located on the Sekikawa River at Joetsu, Myoko City, Niigata Prefecture, Japan
2. **Sodaiyousui Irrigation System (Canal)** located in the Nagara-gawa River Basin at the Sekishi, Gifu Prefecture, Japan
3. **Irukaike Reservoir** located in the Kiso River Basin at Iruka, Inuyama City, Aichi Prefecture, Japan
4. **Kumedaik Reservoir** located in the Ohtsu-gawa River Basin, Kishiwada City, Osaka Prefecture, Japan

C. Thailand

1. **Rangsit Canal and Chulalongkorn Regulator** located in the Chao Phraya River Basin, Thailand
2. **Sa Reed Phong Dam** located in the Mae Lam Pan Sub-Basin of the Mae Yom River Basin, Thailand

II. LIST OF IRRIGATION STRUCTURES PROVISIONALLY APPROVED FOR INCLUSION IN ICID REGISTER**D. Japan**

1. **Uchikawa Irrigation System** located on Eai-gawa River of the Kitakami-gawa River System, Sendai-shi, Miyagi Prefecture, Japan
2. **Murayama-rokkamurasegi-sosui Irrigation Canal** located in the Sio-kawa River Basin, Hokuto, Yamanashi Prefecture, Japan
3. **Takinoyusegi and Ohkwarasegi Irrigation System** located on Kamikawa River in the Tenryu River System, Miyagawa, Chino City, Japan
4. **Jikkasegi Irrigation System** located in the Chikuma-gawa River System, Azumino city, Nagano Prefecture, Japan
5. **Genbegawa Irrigation Canal** located on the Genbegawa River, Mishima City, Shizuoka Prefecture, Japan
6. **Minamiieki-kawaguchi-yusui Irrigation System** located in the Kumozu-gawa River system, Kawaguchi, Tsu City, Mie Prefecture, Japan,
7. **Tokiwako Reservoir** located on the Tsuka-ana-gawa River, Ube City, Yamaguchi Prefecture, Japan



**IMPORTANT DECISIONS TAKEN BY THE
MANAGEMENT BOARD ON BEHALF OF IEC
BETWEEN
65TH IEC Meeting (Gwangju, September 2014) and
66TH IEC Meeting (Montpellier, October 2015) and Endorsed by 66th IEC Meeting
(And the actions taken thereon)**

Decision by the MB Meetings	Decision of 66 th IEC
I. Virtual Management Board Meeting No.1/15, 28 February 2015 (via WEBEX teleconferencing)	
1. MB approved in principle the offer of ENCID to host the 4 th African Regional Conference in Cairo, Egypt from 26-28 April 2016.	Endorsed
II. Virtual Management Board Meeting No.2/15, 26 May 2015	
2. MB approved proposed subscription rates for the 'Irrigation and Drainage' for ICID members for the year 2016 to be US\$ 46 for 'online only' version and US\$ 55 for 'online + print' version in the interim which will be placed before PFC prior to its approval in 66 th IEC.	Endorsed
3. MB approved the proposal for technical and financial sponsoring to the Workshop on 'Water Logging and Soil Salinity in Irrigated Agriculture' held in Sept 2015 at Chandigarh co-organized by Central Board of Irrigation & Power (CBIP) and the Indian National Committee.	Endorsed
4. MB decided to field ICID's candidature for the position of Governor for the elections to the Board of Governors (BoG) of World Water Council and authorized SG to take further necessary action in this regard so as to file the nomination by the prescribed deadline for receipt of candidatures, i.e. 12 September 2015.	Endorsed



REVIEW OF THE WORKBODIES FUNCTIONS UNDER STRATEGY THEME BASIN

VP Laurie Tollefson and VP Dr. Mohamed Wahba

General

The technical activities of ICID are organized under four strategy themes: On Farm, Systems, Basin, and Knowledge. The WGs under the On-Farm theme deals with the application of water at the farm level and how it is best used to increase the productivity and impacts of application of irrigation water including its quality at the farm level. The WGs falling within the theme Scheme address various aspects of delivery of water from the source to the farm level including the planning, development and management.

The Scheme Basin deals with all the basin level environment aspects that impact the agriculture water management such as climate, floods, droughts, sea-water etc. The WGs under the Knowledge Theme is cross cutting and deals with the issue of compilation of knowledge generated by the various WGs and otherwise required for efficient agriculture water management, and how it could be disseminated and applied at the ground.

This review examines the strategy theme Basin and will consist of an appraisal, a vision and future direction for the theme. Post 2015, sustainable development agenda lays emphasis on the need to address the challenges posed by the increasing frequency of extreme events such as drought and floods on one hand and the rising sea levels adversely impacting tidal areas on the other due to climate change.

Review of Strategy Theme BASIN

The strategy theme Basin includes the work of following six workbodies:

- 1) Working Group on Water Management in Water Stressed Regions (WG-DROUGHT);
- 2) Working Group on Sustainable Development of Tidal Areas (WG-SDTA);
- 3) Working Group on Environment (WG-ENV);
- 4) Working Group on Comprehensive Approaches to Flood Management (WG- CAFM);
- 5) Working Group on Global Climate Change and AWM (WG-Climate);
- 6) Working Group on Water for Bio-Energy and Food (WG-BIO-ENERGY).

My general observation is that the WG's under the strategy theme Basin functioning quite well and are productive. In some cases membership and attendance is limited and in others is very good. In some cases new membership is being attracted and the observers attending is high indicating a strong interest in the topic. Poor attendance at the meetings and lack of contribution by the members is a concern. This leads to a reduced productivity and output. If a WG is to be successful, participation and contribution are critical. Encouragement of younger professionals is key and E membership should be considered. Country participation and contribution are key to the successful work in a WG and ICID.

One of the basic characteristic of WGs under theme basin is that they encompass areas of knowledge where the pool of expertise within the countries often lies outside the ambit of the National Committees. There are other institutions within the countries such as meteorological departments, or disaster response authorities or environment protection authorities where the core expertise lies in these fields. Most often these areas involve more than one administrative entities. Disaster Management Authorities for Droughts and Floods from response, rescue and relief perspective; National Meteorological Agencies from perspective of monitoring and prediction of Floods, Droughts and other climate extremes; Agriculture or Water Resources departments from irrigation and drainage perspectives and so on.

At the Global level also, multiple agencies are involved in these activities. World Meteorological Organization for Climate, Drought and Floods from a monitoring perspective; UNEP, UNDP from environmental perspective; FAO from a food security perspective and so on. Given the above special characteristics our approach to these WGs should be more collaborative and the issues addressed through a multi-disciplinary perspective. At the national level the participating expert would have to be from departments other than the core irrigation and drainage departments where the nucleus of the membership of the NC generally located. Implementation of the strategy theme will only be as good as the participation in the WG and TF by the National Committees and the individual involved. WG-BIO-ENERGY is a good example. Nomination of experts from the respective departments by NCs only can increase participation in these WGs to be successful.

Therefore the objectives, mechanism and outcomes of the Working Groups under this theme have to be differentiated vis-à-vis the WGs under strategic themes Schemes and On-Farm.

Objective

- To inform the irrigation and drainage professionals the latest development in the related field;
- To facilitate inter-disciplinary dialogue,
- To assimilate relevant technical material,
- To bring out the available relevant material developed by experts in the field in a language that the AWM professionals can relate to,

Mechanism

- NCs should invite the experts from relevant departments within the countries to participate in the NC meetings,
- Facilitate participation of relevant experts from other departments in WG meetings,
- ICID/WG should draw maximum benefit from the works/studies/projects undertaken by the relevant international organizations
- ICID/WG should participate in the activities of relevant international organization to provide AWM perspective,
- WG should recognize the prevalent trends in the relevant sector and adapt them to AWM,

Outcomes

- Joint publications with the relevant expert international partners,
- Joint specialised trainings/workshops,

Future Vision

As the WGs under strategic theme Basin are not directly related to the core activities but do promote sustainable management of water for agriculture worldwide and play a very important supporting role in achieving ICID overall objective. They address cross cutting multidisciplinary concerns of sustainable development through efficient agriculture water management.

It is observed that in many cases NCs are not multidisciplinary and lack participation of experts in collaborative efforts with other relevant departments so it is necessary to develop a mechanism by NCs for collaborative efforts with all other relevant departments to address supplementary issues of agriculture water management. Based on the analysis of the activities of the WGs and need to meet future challenges in terms of impact of climate change on water resources and agriculture; water, food and energy securities and environmental and ecological aspects of sustainable development following general as well specific recommendations for future activities of WGs are made:

General recommendations

- National committees should be broad based and multidisciplinary structure with members from various core and cross cutting disciplines/departments/institutions for addressing present and future challenges related to agriculture water management.
- National committees need to develop collaborative relationship with other relevant departments.
- Since most of the subjects covered under theme Basin are not core activities of ICID, there is need for collaboration with relevant specialised international organisations working in these fields.
- Continued and enhanced co-operation and MOU's with agencies like WMO, FAO, UNESCO, ADB, etc., where it is mutually beneficial to co-operate.
- Perhaps there is need to introduce another kind of membership (E-membership) for experts from other specialised agencies for encouraging their participation in the activities of the WGs.
- WGs should disseminate the exchange of knowledge that takes place within the WG Workshops with other AWM professionals by publishing the summary and outcomes in ICID NEWS
- WGs should clearly identify their output in work plan which may include technical reports, position paper, special issue of Journal of Irrigation and Drainage, seminar (internal/international) etc.
- WG productivity and need should be evaluated carefully and when mandate and objectives are completed a final report should be written and then move on. A final workshop is also recommended even if through video conference.
- More information products produced and placed on websites.
- Continued and increased efforts to attract young professionals.
- All WG chairs and theme leaders should be trained on procedures initially. Ensure that the duties, expectations, close out procedures, etc., are fully understood.



**Membership Status of
PERMANENT FINANCE COMMITTEE (PFC)**

Sl. No.	Members	Members (w.e.f)	Country	Remarks
1.	VPH Mr. Laurie Tollefson	2013	Canada	Chairman
2.	President Hon. Prof. Dr. Bart Schultz	2011	Netherlands	Member
3.	Mr. Hao Zhao	2012	China	Member
4.	Ms. Serpil Koylu Dalgin	2012	Turkey	Member
5.	Mr. Naoki Hayashida	2014	Japan	Member
6.	Engr. Husnain Ahmad	2014	Pakistan	Member
7.	Dr. Irene Bondarik	2014	Russia	Member
8.	Secretary General			Member

**Membership Status of
PERMANENT COMMITTEE ON STRATEGY AND ORGANIZATION (PCSO)**

Sl. No.	Members	Members (w.e.f)	Country	Remarks
1.	Vice President Hon. Dr. Hüseyin Gündoğdu	2012	Turkey	Chairman
2.	Vice President Hon. Mr. Laurie C. Tollefson	2012	Canada	Member
3.	Vice President Hon. Mr. François Brelle	2012	France	Member
4.	Vice President Dr. Ir. Basuki Hadimoeljono	2013	Indonesia	Member
5.	Vice President Mr. Kadhim Mohsin Ahmed	2013	Iraq	Member
6.	Vice President Er A.B. Pandya	2013	India	Member
7.	Vice President Dr. Mohamed Abd-El-Moneim Wahba	2014	Egypt	Member
8.	Vice President Dr. Ding Kunlun	2014	China	Member
9.	Vice President Bong Hoon Lee	2014	Korea	Member
10.	Vice President Prof. Dr. Charlotte de Fraiture	2015	The Netherlands	Member
11.	Vice President Mr. Ian William Makin	2015	UK	Member
12.	Vice President Prof. Dr. Abdelhafid DEBBARH	2015	Morocco	Member
13.	Secretary General, ICID			Member-Secretary
14.	FAO representative			Permanent Observer
15.	World Bank representative			Permanent Observer
16.	GWP representative			Permanent Observer
17.	WWC representative			Permanent Observer
18.	Chairpersons of all Regional Working Groups and Working Groups/Committees under PCSO.			Ex-Officio Members

Membership Status of Working Groups Under PCSO

Sl. No.	Members	Members (w.e.f)	Country	Remarks
C-CONGR				
1.	Dr. Luis Rendón Pimentel	2014	Mexico	Chairman (2014)
2.	VP Bong Hoon Lee		Korea	Representative

Sl. No.	Members	Members (w.e.f.)	Country	Remarks
3.	Mr. Mehrzad Ehsani		Iran	Representative
4.	Dr. Somkiat Prajamwong		Thailand	Representative
5.	Mrs. Serpil Koylu		Turkey	Representative
6.	Ms. Caroline Coulon		France	Representative
7.	VP Mohamed Abd-El-Moneim Wabha		Egypt	Representative
8.	Ir. Brad Peters		Canada	Representative
ERWG				
1.	VP Ian Makin	2014	UK	Chairman (2015)
2.	VPH Peter Kovalenko	1999	Ukraine	Vice-Chairman (2005)
3.	Mr. Olli-Matti Verta	2000	Finland	Secretary (2011)
4.	Representative	1950	The Netherlands	
5.	Representative	1955	Spain	
6.	Representative	1955	Switzerland	
7.	VPH Brane Maticic	1992	Slovenia	
8.	Mr. Pedro Eduardo da Cunha Serra	1996	Portugal	
9.	Prof. Dr. Ion Nicolaescu	1996	Romania	
10.	Prof. Dr. Svatopluk Matula	1997	Czech Republic	
11.	Dr. Davor Romic	2002	Croatia	
12.	Dr. John Martin	2003	Ireland	
13.	VPH Laszlo Hayde	2005	Hungary	
14.	Dr. Irina G. Pankova	2007	Russia	Observer
15.	Dr. (Mrs.) Sabine Seidelas as Young Professional	2011	Germany	Observer
16.	Dr. Irena Bondarik	2012	Russia	
17.	Dr. Klaus-Dieter Vorlop	2012	Germany	Observer
18.	Dr. Sami Bouarfa	2013	France	
19.	Mr. Peter Alexey Yurievich, Chairman, EWTDR	2014	Russia	Ex-Officio Member
20.	Mr. Hannes Puu	2015	Estonia	
21.	Dr. Marco Arcieri	2015	Italy	
AFRWG				
1.	Dr. Sylvester Mpandeli	2013	South Africa	Chairman (2013)
2.	Representative	1955	Zimbabwe	
3.	Representative	1959	Morocco	
4.	Representative	1964	Sudan	
5.	Representative	1967	Malawi	
6.	Representative	1976	Ethiopia	
7.	Representative	2005	Mali	
8.	Representative	2007	Niger	
9.	VPH Samia El-Guindy	2010	Egypt	
10.	Representative	2011	Tanzania	

Sl. No.	Members	Members (w.e.f.)	Country	Remarks
11.	Engr. Joe Kwanashie	2014	Egypt	
12.	Representative	2014	Madagascar	
13.	Mrs. Salamata Karambiri Miwende	2015	Burkina Faso	
14.	Mr. Tchouadang Kadjonga	2015	Chad	
15.	Mr. Mulako Cornelius Sitali	2015	Zambia	Provisional Member
WG-IDSST				
1.	VPH Peter Kovalenko	2009	Ukraine	Chairman (2009)
2.	VPH Victor A. Dukhovny	2009	Uzbekistan	Vice Chairman (2009)
3.	Dr. Shukhrat Mukhamedjanov	2014	Uzbekistan	Secretary (2014)
4.	Mr. Bernard Vincent	2009	France	
5.	Dr. Katsuyuki Shimizu	2013	Japan	
6.	Dr. Rajinder Kumar Gupta (Direct Member), WAPCOS India Limited	2014	India	
7.	Dr. Alexander Solovyev	2014	Russia	
8.	Engr. Peter Yakube Manjuk	2014	Nigeria	
9.	Mr. Bakhrom Gafarov	2015	Tajikistan	
WG-YPF				
1.	Mr. Yaser Barghi	2010	Iran	Chairman (2010)
2.	Ir. Fabian Priandani	2010	Indonesia	Vice Chairman (2010)
3.	Ms Hayati binti Zainal	2010	Malaysia	Secretary (2010)
4.	Mr. Piyush Ranjan	2009	India	
5.	Mr. Gao Lihui	2011	China	
6.	Ms. Ezee G.C.	2012	Nepal	
7.	Dr. Atsushi Marui	2013	Japan	
8.	Ms. Pooja Kapoor (Direct Member), WAPCOS India Limited	2013	India	
9.	Mr. Nam Joo Heo	2014	Korea	
10.	Engr. Muhammad Ejaz Tanveer	2014	Pakistan	
ASRWG				
1.	VPH Karim Shiati	1997	Iran	Chairman (2006)
2.	Representative	1950	Sri Lanka	
3.	Representative	1953	Pakistan	
4.	Representative	1956	Philippines	
5.	Representative	1973	Bangladesh	
6.	Representative	1977	Saudi Arabia	
7.	Representative	2006	Iraq	
8.	Representative	2006	Kazakhstan	
9.	Mr. Wang Xiodong	2008	China	
10.	Mr. Uttam Raj Timilsina	2011	Nepal	
11.	Dr. Kota Tirupataiah	2012	India	
12.	Mr. Arthon Suttigarn	2012	Nepal	

Sl. No.	Members	Members (w.e.f.)	Country	Remarks
13.	Dr. Aynur Fayrap	2012	Turkey	
14.	Ir. Syed Abdul Hamid bin Syed Shuib	2013	Malaysia	
15.	Dr. Rajinder Kumar Gupta (Direct Member), WAPCOS India Limited	2014	India	
16.	Mr. Naoki Hayashida	2014	Japan	
17.	Representative	2014	Tajikistan	
18.	Dr. Mochammad Amron	2015	Indonesia	
19.	Prof. (Ms.) Kyung Sook Choi	2015	Korea	
20.	Dr. Gwo-Hsing Yu	2015	Chinese Taipei	
21.	Mr. Stephen Mills	2015	Australia	
22.	Mr. Jo'rayev Ilhom Usmonovich	2015	Uzbekistan	Provisional Member

**Membership Status of
PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)**

Sl. No.	Members	Members (w.e.f.)	Country	Remarks
1.	VPH Mr. Felix B. Reinders, Chairman	2010	South Africa	Chairman
2.	Prof. Graziano Ghinassi, (Italy)	2012	Italy	Member
3.	Prof. Masayoshi Satoh (Japan)	2012	Japan	Member
4.	PH Peter S. Lee (UK)	2013	UK	Member
5.	Ms. Aysen Pervin Güngör (Turkey)	2014	Turkey	Member
6.	Mr. Chaiwat Prechawit (Thailand)	2014	Thailand	Member
7.	Dr. Ding Kunlun	2015	China	Member
8.	Dr. Mohamed Wahba	2015	Egypt	Member
9.	Mr. Ali Reza Salamat	2015	Iran	Member
10.	Secretary General, ICID			Member-Secretary
11.	World Bank representative			Permanent Observer
12.	FAO representative			Permanent Observer
13.	IWMI representative			Permanent Observer
14.	ISO representative			Permanent Observer
15.	WWC representative			Permanent Observer
16.	CPWF representative			Permanent Observer
17.	AgWA representative			Permanent Observer
18.	All Strategy Theme Leaders and Chairpersons of all workbodies under PCTA. Ex-Officio Member Vice President Hon. Larry D. Stephens (USA), Chairman, C-PR&P as Secretary (PCTA).			Ex-Officio Members

Membership Status of Working Groups Under PCTA

Sl. No.	Members	Members (w.e.f)	Country	Remarks
EB-JOUR				
1.	PH Bart Schultz	2002	Netherlands	Chairman (2002)
2.	Prof. Dr. Kristoph-Dietrich Kinzli P.E.	2010	USA	Joint Editor (2012)
3.	Dr. Jiusheng Li	2012	China	Joint Editor (2015)
4.	VPH Hector Malano	2001	Australia	Editor Emeritus (2015)
5.	Dr. Bryan P. Thoreson	2001	USA	Associate Editor
6.	Prof. Daniele de Wrachien	2001	Italy	Associate Editor
7.	Prof. Yih Chi Tan	2006	Chinese Taipei	Associate Editor
8.	Dr. Nick C. Van de Giesen	2007	Netherlands	Associate Editor
9.	Dr. Marcel Kuper	2009	France	Associate Editor
10.	Mr. Bernard Vincent	2010	France	Associate Editor
11.	Dr. Takao Masumoto	2011	Japan	Associate Editor
12.	Prof. Leon van Rensburg	2013	South Africa	Associate Editor
13.	Dr. Biju George	2013	Australia	Associate Editor
14.	Dr. Henk Ritzema	2013	Netherlands	Associate Editor (2015)
15.	Prof. Waldo Ojeda-Bustamante	2014	Mexico	Associate Editor
16.	Prof. Kendall C. DeJonge	2014	USA	Associate Editor
17.	Prof. Saleh Taghvaejan	2014	USA	Associate Editor
18.	Prof. Graziano Ghinassi	2015	Italy	Associate Editor (2015)
19.	VPH Laszlo Hayde	2015	Hungary	Associate Editor (2015)
20.	VPH Larry D. Stephens	2001	USA	
21.	Dr. Muhammad Latif	2002	Pakistan	
22.	Dr. Vijay Labhsetwar (ICID Central Office)	2006	India	
23.	Dr. Yohei Sato	2009	Japan	
24.	Prof. Ir. Dr. Mohd Amin bin Mohd Soom	2009	Malaysia	
25.	Dr. Mohammad Javad Monem	2011	Iran	
26.	Prof. Dr.-Ing. Klaus Rottcher	2011	Germany	
27.	Prof. dr. Joong Dae, Choi	2013	Korea	
28.	Mr. Brent Paterson	2013	Canada	
29.	Ir. Simon Howarth	2014	UK	
WG-CAFM				
1.	Dr. Kamran Emami	1999	Iran	Chairman (2010)
2.	Dr. Takao Masumoto	2009	Japan	Vice-Chairman (2015)
3.	Mohd Adnan bin Mohd Nor	2013	Malaysia	Secretary (2015)
4.	Mr. Maurice Roos	2006	USA	
5.	Mr. Olli-Matti Verta	2011	Finland	
6.	Mr. Marcel Marchand	2011	Netherlands	
7.	Dr. Arthon Suttigarn	2012	Thailand	
8.	Ms. Aysen Pervin Gungor	2012	Turkey	
9.	Dr. Herman Booysen (South Africa)	2012	South Africa	
10.	Mr. R.K. Agarwal (Direct Member), WAPCOS India Limited	2014	India	
11.	Dr. Rozalija Cvejic	2014	Slovenia	
12.	Mr. V.D. Roy	2015	India	Provisional Member
13.	Prof. Dr.-Ing. Klaus Rottcher	2015	Germany	Observer
14.	FAO representative			Observer
15.	UNDRO representative			Observer

Sl. No.	Members	Members (w.e.f)	Country	Remarks
16.	WMO representative			Observer
17.	World Bank representative			Observer
WG-SDTA				
1.	Dr. Ruey-Chy Kao	2007	Chinese Taipei	Chairman (2011)
2.	Ir. Henk P. Ritzema	2002	Netherlands	Vice-Chairman (2009)
3.	Dr. Hajime Tanji	2013	Japan	Secretary (2013)
4.	Dr. (Ms) Hsiao-Weng Wang	2010	Chinese Taipei	Young Professional
5.	Prof. Budi Santoso Wignyosukarto	2011	Indonesia	
6.	Prof. Zhang Zhanyu	2012	China	
7.	Ir. Hj. Nor Hisham bin Mohd Ghazali	2012	Malaysia	
8.	Dr. Jeongryeol Jang	2014	Korea	
9.	Dr. Jo Jin Hoon		Korea	Permanent Observer
10.	Dr. Daeou Eo		Korea	Permanent Observer
11.	Mr. Robiyanto Hendro Sustano		Indonesia	Permanent Observer
12.	FAO Representative			Permanent Observer
WG-DROUGHT				
1.	VPH Franklin E. Dimick,	2008	USA	Chairman (2009)
2.	Mr. Mohammad Sadegh Jafari	2008	Iran	Vice-Chairman (2009)
3.	Mr. V.C. Ballard	2012	Australia	Secretary (2012)
4.	VPH Ragab Ragab	2008	UK	
5.	Dr. Graziano Ghinassi	2008	Italy	
6.	Prof. Chang-Chi Cheng	2008	Chinese Taipei	
7.	Dr. Takanori Nagano	2011	Japan	
8.	Dr. Gurhan Demir	2012	Turkey	
9.	Dr. Hakan Aksu	2012	Turkey	Young Professional
10.	Mr. Sudhakar (Direct Member), JISL	2015	India	Provisional Member
TF-VE				
1.	Dr. Kamran Emami	2012	Iran	Chairman (2013)
2.	Mrs. Remziye Yildiz Gulagaci	2013	Turkey	Vice-Chairman (2013)
3.	Ir. Nor Hisham M. Ghazali	2013	Malaysia	Secretary (2013)
4.	VPH Francois Brelle	2013	France	
5.	Mr. Suman Sijapati	2014	Nepal	
6.	Dr. Toshihiko Kuno	2014	Japan	
7.	Mr. Abijit Joshi (Direct Member), JISL	2015	India	Provisional Member
8.	Mr. Yeolkar (Direct Member), JISL	2015	India	Provisional Member
WG-BIO-ENERGY				
1.	Dr. Fuqiang Tian	2012	China	Chairman (2015)
2.	Mr. Sanjay Belsare	2010	India	
3.	VPH Laurie C. Tollefson	2012	Canada	
4.	Mr. Uttam Raj Timilsina	2012	Nepal	
5.	Mr. Mortaza Yazdkhasti	2015	Iran	Provisional Member
6.	Mr. André Roux	2015	South Africa	
7.	Mr. Bassam Hayek	2015	Jordan	Observer
WG-WATER & CROP				
1.	VPH Ragab Ragab	2007	UK	Chairman (2007)
2.	VPH Laurie C. Tollefson	2009	Canada	Vice-Chairman (2009)

Sl. No.	Members	Members (w.e.f)	Country	Remarks
3.	Dr. K. Yella Reddy	2009	India	Secretary (2009)
4.	Dr. Koji Inosako	2010	Japan	
5.	Prof. Dr. Mohd Amin Mohd Soom	2011	Malaysia	
6.	Dr. Magdi T. Abdelhamid	2011	Egypt	
7.	Mrs. Gao Hong	2012	China	
8.	Prof. Dr. Allah Bakhsh	2015	Pakistan	Provisional Member
9.	Ir. Adang Saf Ahmad	2015	Indonesia	Provisional Member
10.	Dr. P. Soman (Direct Member), JISL	2015	India	Provisional Member
11.	Mr. Syaiful Mahdi	2015	Indonesia	Observer
12.	FAO representative			Permanent Observer
13.	CIGR representative - Mr. Herbert H. Van Lier			Permanent Observer
14.	Prof. D. Wrachien		Italy	Permanent Observer
15.	ICRISAT representative			Permanent Observer
WG-CLIMATE				
1.	Dr. Tsugihiko Watanabe	2006	Japan	Chairman (2014)
2.	Dr. Ray Shyan Wu	2009	Chinese Taipei	Vice Chairman (2014)
3.	Dr. Tian Fuqiang	2014	China	Secretary (2014)
4.	Dr. Juan A. Rodriguez-Diaz	2010	Spain	
5.	Prof. Dr. Choi, Jin-Yong	2013	Korea	
6.	Dr. Nozar Ghahreman	2015	Iran	
7.	Dr. Waleed Hassan M. Abou El Hassan	2015	Egypt	
8.	Mr. Michael Davidson	2015	USA	
9.	Dr. Guy Jobbins	2015	UK	
10.	Mr. Mika Turunen	2015	Finland	
11.	Dr. S.K. Deshmukh (Direct Member), JISL	2015	India	Provisional Member
12.	WMO representative			Permanent Observer
13.	IWMI Representative			Permanent Observer
14.	FAO Representative			Permanent Observer
WG-ON-FARM				
1.	VPH Felix B. Reinders	1998	South Africa	Chairman (2004)
2.	VPH Peter Kovalenko	2001	Ukraine	Vice Chairman (2001)
3.	Dr. A.K. Randev	2005	India	Secretary (2005)
4.	VPH Jose A. Ortiz	2003	Spain	
5.	Dr. Graziano Ghinassi	2004	Italy	
6.	Mr. Hassan Shantia	2006	Iran	
7.	Dr. Abraham Mehari Haile	2008	The Netherlands	
8.	Mr. Mohd Yazid bin Abdullah	2011	Malaysia	
9.	Dr. Akira Iwamoto	2011	Japan	
10.	Dr. Chen, Ching-Tien	2012	Chinese Taipei	
11.	Mr. Suman Sijapati	2013	Nepal	

Sl. No.	Members	Members (w.e.f)	Country	Remarks
12.	Dr. Dickson Ahagbuje	2014	Nigeria	
13.	Mr. Bashu Dev Lohanee	2015	Nepal	
14.	Dr. Hossein Dehghani Sanij	2015	Iran	
15.	Mr. Carl Walters	2015	Australia	
16.	Mr. Muhammad Tahir Anwar	2015	Pakistan	Provisional Member
17.	Mr. M.S. Sudhakar (Direct Member), JISL	2015	India	Provisional Member
18.	Mr. S.P. Jadhav (Direct Member), JISL	2015	India	Provisional Member
19.	Mr. Abijit Joshi (Direct Member), JISL	2015	India	Provisional Member
20.	Mr. Jano Anter	2011	Germany	Observer
21.	Mr. Bruno Molle		France	Permanent Observer
22.	FAO Representative			Permanent Observer
WG-SDG				
1.	Mr. Bernard Vincent	2013	France	Chairman (2013)
2.	Dr. Momon Sodik Imanudin	2013	Indonesia	Vice Chairman (2013)
3.	Ms. Nurgul Uzucek	2013	Turkey	Secretary (2015)
4.	Dr. James Ayars	2013	USA	
5.	VPH Brane Maticic	2013	Slovenia	
6.	Mr. Chen Hung-Kwai	2013	Chinese Taipei	
7.	Mr. AT van Coller	2013	South Africa	
8.	VPH Shinsuke Ota	2013	Japan	
9.	Dr. Yurii Yanko	2013	Russia	
10.	Dr. Gurbachan Singh	2013	India	
11.	Mr. Mati Tonismae	2013	Estonia	
12.	Mr. Ardavan Azari	2013	Iran	
13.	Ms. Helena Aijo	2013	Finland	
14.	Dr. Ashraf El Sayed Ismail	2013	Egypt	
15.	Ms. Wang Shaoli	2013	China	
16.	Engr. Mohd Anuar Musardar bin Yusoff	2013	Malaysia	
17.	Dr. M.N. Bhutta	2013	Pakistan	
18.	Prof. (Ms.) Kyung-Sook Choi	2014	Korea	
19.	Dr. Hajime Tanji	2014	Japan	
20.	Prof. Ir. Robiyanto Hendro Sustanto	2014	Indonesia	
21.	Dr. Henk Ritzema	2015	The Netherlands	
22.	Mr. Krishna Prasad Rijal - Young Professional	2015	Nepal	Provisional Member
23.	Mr. Yeolkar (Direct Member), JISL	2015	India	Provisional Member
WG-M&R				
1.	VP Ian Makin	2015	UK	Chairman (2015)
2.	Dr. Dong Bin	2014	China	Vice Chairman (2015)
3.	Engr. Muhammad Sani Bala	2015	Nigeria	Secretary (2015)
4.	Mr. Vyacheslav Rozhon	2014	Ukraine	

Sl. No.	Members	Members (w.e.f)	Country	Remarks
5.	Mr. Mehrzad Ehsani	2014	Iran	
6.	Ir. Eko Subekti	2014	Indonesia	
7.	Dr. Yohei SATO	2015	Japan	
8.	Mr. Bir Singh Dhama – Young Professional	2015	Nepal	
9.	Dr. Kwang-Sik Yoon	2015	Korea	
10.	Mr. Mohd Yazid bin Abdullah	2015	Malaysia	
11.	Ms. Meral Çiçek	2015	Turkey	
12.	Mr. Puleng Mofokeng	2015	South Africa	
13.	Dr. Brian T. Wahlin	2015	USA	Provisional Member
14.	Mr. Alan Kendall Clark	2015	UK	Permanent Observer
15.	FAO Representative- Mr. Thierry Facon/ Ms. Robina Wahaj	2015		Permanent Observer
WG-IOA				
1.	VPH Hafied A. Gany	2014	Indonesia	Chairman (2015)
2.	Dr. Kazumi Yamaoka	2015	Japan	Vice Chairman (2015)
3.	Mr. Madhav Belbase	2015	Nepal	Secretary (2015)
4.	Mr. Hasan Basri Yuksel	2015	Turkey	
5.	Mr. Philip J. Riddell	2015	UK	
6.	Dr. Seong Joon Kim	2015	Korea	Provisional Member
7.	VP Ding Kurlun	2015	China	Provisional Member
8.	Mr. Franck Sanfilippo	2015	France	Provisional Member
9.	VPH Franklin Dimick	2015	USA	Provisional Member
10.	Mr. Abdullahi Abdul Rahman	2015	Nigeria	Provisional Member
WG-WATS				
1.	Mr. Mehrzad Ehsani	2015	Iran	Chairman (2015)
2.	VPH Adama Sangare	2015	Mali	Vice Chairman (2015)
3.	Prof. (Ms.) Kyung-Sook Choi	2015	Korea	
4.	VPH M. Hassan Amer	2015	Egypt	
5.	Eng. S. Mohanarajah	2015	Sri Lanka	Provisional Member
6.	Dr. Hassan Aboalbasher Ali	2015	Sudan	Provisional Member
7.	Dr. P. Soman (Direct Member), JISL	2015	India	Provisional Member
8.	Mr. S.P. Jadhav (Direct Member), JISL	2015	India	Provisional Member
9.	Mr. Abijit Joshi (Direct Member), JISL	2015	India	Provisional Member
10.	IWMI Representative- Mr. Ian W. Makin	2015	UK	Permanent Observer
11.	FAO Representative- Mr. Thierry Facon/ Ms. Robina Wahaj	2015		Permanent Observer
WG-IDM				
1.	VPH Francois Brelle	2015	France	Chairman (2015)
2.	Ms. Mary Jean M. Gabriel	2015	South Africa	Provisional Vice Chair (2015)
3.	Dr. Katsuyuki Shimizu	2015	Japan	Secretary (2015)
4.	Mr. Mohammad Kazem Siah	2015	Iran	Provisional Member

Sl. No.	Members	Members (w.e.f)	Country	Remarks
5.	Dr. Wu Jingwei	2015	China	Provisional Member
6.	Ir. Mat Hussin Bin Ghani	2015	Malaysia	Provisional Member
7.	Mr. Ming-Young Jan	2015	Taiwan	Provisional Member
8.	Mr. Waleed Hassan	2015	Egypt	Provisional Member
9.	VP Ian Makin	2015	UK	Observer
10.	VPH Hafied Gany	2015	Indonesia	Observer
WG-HIST				
1.	Dr. Kamran Emami	2009	Iran	Chairman (2009)
2.	Dr. Bert Toussaint	2005	The Netherlands	Secretary (2005)
3.	Prof. Dr. N. Hatcho	1996	Japan	
4.	Mrs. Xuming Tan	1997	China	
5.	VPH Laszlo Hayde	2001	Hungary	
6.	VPH Hafied A. Gany	2005	Indonesia	
7.	Mr. Charles L. Abernethy	2005	UK	
8.	Prof. Jaekyoung Noh	2014	Korea	
9.	VPH Chaiwat Prechawit	2014	Thailand	
10.	Engr. Sirika Ahmad Abubakar	2014	Nigeria	
11.	Mr. Antonio Linoli	2014	Italy	
12.	VPH Gerhard Backeberg	2015	South Africa	Provisional Member
13.	Prof. Dr. Abdul Sattar Shakir	2015	Pakistan	Provisional Member
14.	Dr. Ing. Klaus Rottcher	2006	Germany	Observer
15.	Dr. (Mrs.) B. Dolfing		The Netherlands	Permanent Observer
16.	IWHA representative - Dr. Ir. M. Ertsen		The Netherlands	Permanent Observer
C-PR&P				
1.	VPH Larry D. Stephens	1992	USA	Chairman (1992)
2.	Ms. Anne Currey	1998	Australia	
3.	PH Bart Schultz	2009	The Netherlands	
4.	Dr. Yingduo Yu	2012	China	
5.	Mr. C.P. Arora (Direct Member), WAPCOS India Limited	2014	India	
6.	Mr. Satit Maneechai		Thailand	Observer
WG-PQW				
1.	VPH Samia El- Guindy	1999	Egypt	Chair (2011)
2.	Dr. Anna Tedeshi	2011	Italy	Secretary (2011)
3.	VPH R. Ragab	1997	UK	
4.	VPH Karim Shiati	1997	Iran	
5.	Dr. Leon van Rensburg	2010	South Africa	
6.	Dr. Takanori Nagano	2011	Japan	
7.	VP Ding Kunlun	2012	China	
8.	Dr. Tapas Kumar Biswas	2012	Australia	

Sl. No.	Members	Members (w.e.f)	Country	Remarks
9.	Dr. S.K. Deshmukh (Direct Member), JISL	2015	India	Provisional Member
10.	FAO Representative			Permanent Observer
11.	ICBA Representative		UAE	Permanent Observer
WG-ENV				
1.	Dr. Sylvain Perret	2010	France	Chairman (2011)
2.	Prof. N. Hatcho	2008	Japan	Vice Chairman (2011)
3.	Dr. Michael van der Laan	2010	South Africa	Secretary (2010)
4.	Prof. Yih-Chi Tan	2008	Chinese Taipei	
5.	Mr. Mohammad Kazem Siah	2008	Iran	
6.	Dr. Choi, Joong-Dae	2008	Korea	
7.	Mr. V.C. Ballard	2010	Australia	
8.	Dr. Anna Tedeschi	2011	Italy	
9.	Mr. Ahmed Mohammad Aziz	2011	Iraq	
10.	Dr. Aynur Fayrap	2012	Turkey	
11.	Ir. Mohd Azmi Ismail	2013	Malaysia	
12.	Dr. Muhammad Basharat Chaudhry	2015	Pakistan	
13.	Dr. Fuqiang Tian	2015	China	
14.	Dr. (Ms.) Charlotte de Fraiture	2015	The Netherlands	
15.	Ms. Seija Virtanen	2015	Finland	
16.	Mr. Mohammad Samiul Ahsan Talucder (Direct Member)	2015	Bangladesh	Provisional Member
TF-WWF7				
1.	VPH Shinsuke Ota	2012	Japan	Chairman (2012)
2.	PH Bart Schultz	2012	The Netherlands	
3.	PH Chandra Madramootoo	2012	Canada	
4.	VPH Tai-Cheol Kim	2012	Korea	
5.	VPH Francois Brelle	2012	France	
6.	VPH Karim Shiati	2013	Iran	
WG-CDTE				
1.	Prof. Dr. Abdelhafid DEBBARH	2015	Morocco	Chairman
2.	Dr. Young D. Kim	2015	Korea	

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



**Report of the 36th Meeting of the
PERMANENT FINANCE COMMITTEE (PFC)
12 October 2015: 14.00-15.30 hours (Session I)
12 October 2015: 16.00-17.30 hours (Session II)
Montpellier, France**

Members Present: (1) Vice President Laurie Tollefson, Chairman (Canada, 2013); (2) President Hon. Prof. Dr. Bart Schultz (The Netherlands, 2011); (3) Mr. Naoki Hayashida (Japan, 2014); (4) Dr. Irene Bondarik (Russia, 2014); (5) President Hon. Gao Zhanyi (China) representing Mr Hao Zhao; and (6) Er. Avinash C. Tyagi, Secretary General, ICID.

Observers Present: (i) President Dr. Saeed Nairizi (Iran); (ii) President Hon. Peter Lee (UK); (iii) Vice President Dr. Hüseyin Gundogdu (Turkey); (iv) Vice President Dr. Mohamed Abd-El-Moneim Wagba (Egypt); (v) VPH Adama Sangare (Mali); (vi) Masao Miyazaki (Japan) (vii) Dr. Luis Rendon Pimentel (Mexico) (viii) Tchouadang Kadyonge (Chad) (ix) Kouyate Goundo Sissiko (Mali); (x) Marco Arceri (Italy) (xi) Halido Abdouloye (Niger); (xii) Ismail Widadi (Indonesia); (xiii) Ahmad Salafi (Niger); (xiv) Warren Helgason (Canada); (xv) Dave Murray; (xvi) Ms Patricia Herrera (Mexico); (xvii) Dr. Somkiant Prajamwong (Thailand); (xviii) Harish Verma Central Office

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

1. A conversion rate of US\$1 = ₹ 60 was assumed in the forecast for year 2014-15 on the basis of exchange rate in the preceding 15 months of 2014. Subscriptions actually received were converted based on the prevailing exchange rates. The difference in the budgeted receipts and the actual receipts due to change in exchange rate are accounted for as part of 'other receipts'. Based upon average exchange rate of US \$ and ₹ for the last fifteen months from April 2014 to June 2015, an exchange rate of US\$1 = ₹ 62 has been assumed for the Revised Budget (proposed) for the year 2015-16, Budget for Financial Year 2016-17 and Preliminary Budget for 2017-18 and Forecasted budget for the Financial Years 2018-19

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

2. The Committee noted that Vice President Hon. A.K. Bajaj would be retired after completion of 6 years term as member of the Committee and thanked for his contribution during his term. The Committee urged NCs to nominate more members to the PFC.

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

3. Based on the report of DMA Sub-committee, the PFC recommends to IEC for acceptance of the following as Direct Members of ICID. The members desired that after three years of the functioning of Direct Membership, it would be desirable to see if there is a need to undertake a drive to enrol more direct members. It requested SG to undertake the study looking at all the pros and cons of undertaking such a drive and report back to PFC.

Sl. No.	Name of Applicants	Country	Category	Duration of membership
1.	Md. Samiul Ahsan Talucder	Bangladesh	Individual (Young Professional)	3 years
2.	Mr. Aytekin Turgay	Turkey	Individual	Life Membership
3.	Prof. Prashanta Kumar Bordoloi	India	Individual	Life Membership
4	M/s Jain Irrigation Systems Ltd.	India	Company	3 years

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

4. PFC noted with satisfaction that the Ukrainian National Committee which was approved to be moved to the status of "Associate Member" has now paid their arrear subscription. The Committee recommended that they may once again be incorporated as full member. Since Czech Republic National Committee has not cleared their outstanding dues for last two years, PFC considered and recommended to IEC to apply By-law 13.1 debarring the National Committee from holding office – whether it be as Office Bearer or as a member of a work body until such time the arrears are paid. PFC requested the Secretary General to follow up with Saudi Arabia National Committee to pay arrears of subscription for the year 2014 amounting to US\$ 3,820 and current year's subscription amounting to US\$ 3,935

5. PFC noted that Sudanese National Committee of ICID (SUCID) have paid US\$ 14,475 towards membership subscription for the year 2015 and remaining as advance subscription for the years 2016, 2017, 2018 and 2019. PFC recommends to IEC to re-admit SUCID and waive off their subscription arrears for the years 2000, 2001 and 2002, in accordance with By-law 13.5, Sudan being a least developed country (LDC). The Committee also recommend to place on record its appreciation of SUCID for paying the subscription of 2015 and advance subscription payment of 4 years. The Committee also noted that Myanmar National Committee (MNCID) has paid their subscription for 2015 and has agreed to pay the arrears in five instalments and recommends that they be affirmed as members from 2015.

6. PFC noted with regret that German National Committee has withdrawn their membership from ICID with effect from 1 January 2015. The Committee members were of the view that although the membership fee appearing to be the reason for the withdrawal of some of the NCs from Europe such as Austria and Germany, the subscription cannot be the real reason for the unwillingness to continue in many cases. The reasons for loss of interest whether at technical level or at the political level needs to be looked into more closely? It recommended that the issue may be discussed in ERWG meeting and PCSO and accordingly IEC may consider setting up a Task Force to look into the reasons for withdrawal of many European National Committees.

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

PFC Minutes Item 4.1. 65th IEC and 22nd Congress, 16-20 September 2014, Gwangju, South Korea

7. PFC thanked the Korean National Committee on Irrigation and Drainage (KCID) for contributing US\$ 152,500 as special contribution to ICID budget being equivalent to 50% of the registration fee collected (US\$ 305,000) from the 22nd Congress and 65th IEC meeting held in Korea in 14-20 September 2014. The Committee recommends that IEC may like to record its appreciation to KCID for remitting a record contribution to ICID Budget.

PFC Minutes Item 4.2. 12th International Drainage Workshop, 23-26 June 2014, St. Petersburg, Russia

8. PFC also thanked the National Committee of the Russian Federation on Irrigation and Drainage (RuCID) for making special contribution to ICID budget, amounting to US\$ 2,085, equivalent to 5% of the registration fee for the 12th International Drainage Workshop held in Russia. The Committee may like to record its appreciation to RuCID.

PFC Minutes Item 5: Review of financial proposals for the forthcoming ICID events

9. PFC recommended IEC to approve the following financial proposals, including fee structure of the host NCs; ENCID for the 4th African Regional Conference in April 2016; THAICID for the 2nd World Irrigation Forum and 67th IEC Meeting in November 2016; IRNCID for the 13th International Drainage Workshop in April 2017; MXCID for the 68th IEC and 23rd Congress in 2017.

10. The members were of the view that the registration fee for the accompanying persons should be reasonable and that the host NC should clearly specify the benefits that the accompanying persons should be getting. It also briefly discussed the proposal from IRNCID to convert this event into Asian Regional Conference. The members expressed that generally there is not a practice of having a regional conference in the same year as other major event like Congress and WIF and were of the view that the issue should be discussed at the ASRWG meeting first and conflict with other events should particularly the WIF2 should be considered while making such a decision.

Year	2016		2016		2017		2017	
Venue	Chiang Mai, Thailand		Cairo, Egypt		Ahvaz City, Iran		Mexico City, Mexico	
Event	67 th IEC & 2 nd WIF		4 th African Reg Conf.		13 th IDW		68 th IEC & 23 rd Congress	
	Nos.	Rate	Nos.	Rate	Nos.	Rate	Nos.	Rate
Full registration	400	\$750		\$500		\$500	500	\$800
Non-member fee	-	\$900		-		\$550		-
Young Professionals (International)	100	\$375		\$250		\$250	300	\$400
Young Professionals (Local)		-		\$100		-		-
Local/conference rate	400	\$180		-		-	100	\$500
Retired professionals		\$375		\$250		\$250		\$400
Accompanying Persons		\$300		\$200		\$250		\$300

PFC Minutes Item 6: To discuss the audited accounts of ICID for the year 2014-15 and recommend to the IEC

11. The Committee considered the Audit Report of ICID prepared by M/s A. Abhyankar & Company, Statutory Auditors for the financial year 2014-15 presented in **Annex R1.1 (page 13)**. PFC recommended to IEC the Audit Report for the FY 2014-15 prepared by M/s A. Abhyankar & Company, as presented for approval.

12. PFC noted that the Receipts and Payment Account of the ICID Employees Provident Fund Trust for the year 2014-15 were also audited by the statutory auditor. SG pointed out that the audit of the Trust is being placed before the PFC as the IEC through PFC has to keep a watch on the Employee welfare.

PFC Minutes Item 7: Budget and Actual Payments for the financial year 2014-15

13. The Committee noted that there has been a significant improvement in overall surplus of Rs. 13.27 million against a deficit of Rs. 1.62 million as envisaged in the revised budget for 2014-15 due to contribution from TUCID against its registration fee share of the 1st WIF held at Turkey in 2013 and 22nd Congress held at Korea in 2014 in the same financial year 2014-15. It recommends that the surplus from the FY 2014-15 may be used during the next five years. On a quarry it was clarified that the rehabilitation was taken as a distinct head as compared to the maintenance as rehabilitation involved major repairs that have been necessitated due to deferred maintenance of the building over the years. Provision of funds under this head are required upto the FY 2016-17.

14. The Committee noted that during the financial year 2014-15 an amount of US\$ 60,000 was received as grant from the Ministry of Water Resources, China in four tranches for certain specified activities such as supporting Young Professionals from developing and less developed countries to attend meetings of ICID, support to SARIA workshop and study tours etc. The Committee recorded its appreciation to CNCID for the grants provided for specified activities of ICID.

15. The Committee also noted that during the financial year 2014-15, an amount of US\$ 12000 was received as grant from the World Meteorological Organization (WMO), Switzerland for supporting the participation of representatives of irrigation management departments from eight South Asian countries engaged in flood management etc. to the Climate Services User Forum in April 2014 held in Pune, India. PFC also recorded its appreciation to WMO for their support.

PFC Minutes Item 8: To consider revised budget proposal for the current FY 2015-16; budget proposal for FY 2016-17; proposal for preliminary budgets for FY 2017-18 and forecast budget for FY 2018-19

16. The Committee considered the revised budget for the FY 2015-16 and also considered the budget proposal for the FYs 2016-17, preliminary budget for 2017-18 and forecast budget for 2018-19 as presented at Annex 2 of PFC Agenda (page 264 of 66th IEC Agenda). On a quarry, it was pointed out that there is a jump in the provision for staff salaries from 2016-17 since there is a Pay Commission that looks into the pay scales of the Government and ICID uses it as a reference to fix the salary of its staff. It is expected that after the report from the Seventh Pay Commission set up by Government of India, a mechanism would be proposed to revise the pay scales of ICID staff. The Committee recommends to IEC for the acceptance of the revised budget for FY 2015-16 and the proposed budget for FY 2016-17 by IEC as presented in **Annex R1.2 (page 17)**.

PFC Minutes Item 9: Surplus/Deficit and Cash Reserve

17. The Committee noted that there is likelihood of a surplus of Rs 2.56 million for the FY 2015-16. Also Rs. 11.23 million, Rs. 8.67 million and Rs. 4.19 million are expected to be surplus for the FY 2016-17, FY 2017-18 and FY 2018-19 respectively. PFC was informed that the total cash reserve as on date is only Rs 55.60 million. The Committee realized that this is not a very healthy sign for the financial sustainability of any organization and recommended that after meeting all the liabilities the cash reserve may be allowed to be build up at least equal to the annual payments.

PFC Minutes Item 10: Establishment of WID Prize Corpus Fund

18. PFC was satisfied that a separate account in the name of "ICID Corpus – WID Prize" had been opened in Canara Bank in New Delhi and recommends that the IEC should make an appeal to all the NCs to contribute to this fund as the corpus fund required for the US\$ 10,000 triennial prize. The total Corpus Fund required for the triennial US\$ 10,000 prize, at the current interest rates is about US\$ 45,000 out of which US\$ 20,000 and US\$ 5,000 has been received from Chinese and Korean National Committees, respectively. There is an additional requirement would be US\$ 20,000. PFC recommends that IEC may urge all the NCs to contribute to this Fund.

PFC Minutes Item 11: Any other items**PFC Minutes Item 11.1: Review of annual membership subscription**

19. PFC recommends to IEC for establishing a Task Force to review membership subscription formulae and bring out new proposal for the membership subscription. In the meantime, the Committee recommends to IEC to suspend the 3% increase in annual membership subscription from the next financial year (effective from 1st January 2016) till the IEC takes a decision on the report to be submitted by the Task Force.

PFC Minutes Item 11.2: Authorization to signatory of Bank Account in HSBC London

20. PFC recommends to IEC to pass the Resolution as given below authorizing Secretary General Avinash C Tyagi as the first signatory and Dr Vijay K Labshetwar as the second signatory for the operation of ICID bank account on HSBC London.

RESOLUTION

The 66th International Executive Council (hereinafter called 'Council') of the International Commission on Irrigation and Drainage at its meeting held in Montpellier, France this day, the 16th October, 2015, hereby resolves:

"That Mr. Avinash C. Tyagi, Secretary-General and Dr. Vijay K. Labshetwar, Director be and hereby authorized jointly to sign or accept all cheques. The signing rule is two to sign".

"Resolved further that the bank be instructed to honour all cheques, and other orders drawn by and to accept and to credit to the account of ICID all moneys deposited with or owing by the bank or any account or accounts at any time kept or times kept or to be kept in the name of ICID and the amount of all cheque, notes, bills, other negotiable instruments, orders or receipt, provided they are endorsed/signed jointly by above named on behalf of the ICID and such signatures shall be sufficient authority to bind ICID in all transactions between the bank and the ICID including those specially referred to herein."

"Resolved further that a copy of Resolution and specimen signature of the above signatories, authorized to operate the account, be provided to the Bank."

21. While discussing this item members were of the opinion that the HSBC Account in London should be maintained so long as the financial regulations governing ICID as a Society and other relevant rules permit. It suggested that the payments in Dollars, such as those made to M/s Willey, could be made from this account.

PFC Minutes Item 11.3: Appointment of Statutory Auditor

22. PFC considered the bid from 11 candidates who had applied for appointment as the statutory auditor for ICID and recommends that M/s P. K. Chopra may be appointed as the statutory auditors of ICID for the period of three years 2015-18.



Report of the 26th Meeting of the
PERMANENT COMMITTEE ON STRATEGY AND ORGANIZATION (PCSO)
15 October 2015, 09.00-12.30, hours
Montpellier, France

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

Members Present: (1) Vice President Dr. Hüseyin Gündoğdu, Chairman (Turkey, 2012); (2) Vice President Hon. Prof. Tai Cheol, Kim (South Korea, 2011); (3) Vice President Hon. Mr. Adama Sangare (Mali, 2011); (4) Vice President Hon. Dr. Gerhard Backeberg (South Africa, 2011); (5) Vice President Mr. Laurie C. Tollefson (Canada, 2012); (6) Vice President Mr. François Brelle (France, 2012); (7) Vice President Mr. Kadhim Mohsin Ahmed (Iraq, 2013); (8) Vice President Dr. Mohamed Abd-El-Moneim Wahba (Egypt, 2014); (9) Vice President Dr. Ding Kunlun (China, 2014); (10) Vice President Bong Hoon Lee (Korea, 2014) and (11) Er. Avinash C. Tyagi, Secretary General, ICID.

Permanent Observers Present: Mr. Olcay Unver (FAO).

Ex-Officio Members Present: (1) Dr. Sylvester Mpandeli (South Africa), Chairman, African Regional Working Group; (2) VPH Dr. Laszlo Hayde (Hungary), Chairman, European Regional Working Group; (3) VPH Dr. Karim Shiati (Iran), Chairman, Asian Regional Working Group; (4) Mr. Yaser Barghi (Iran), Chairman, ICID Young Irrigation Professionals Forum represented by Ms. Hayati Zainal (Malaysia); (5) Dr. Luis Rendon Pimentel (Mexico), Chairman, Committee on Congresses/Conferences and (6) VPH Prof. Peter Kovalenko (Ukraine), Chairman, Working Group on Irrigation and Drainage in States under Socio-Economic Transformation.

Observers Present: (i) PH Peter S. Lee (UK); (ii) PH Bart Schultz (The Netherlands); (iii) Dr. Mohammad Javad Monem (Iran); (iv) Mr. Shukhzat Mukhamedjanov (Uzbekistan); (v) Dr. Gong Ju (Korea); (vi) Mr. Ian W. Makin (UK); (vii) Mr. Habib Abdouloye (Nigeria); (viii) Mr. Ndongo Sene (Senegal); (ix) Mr. Tom Soo (IWRA) and (x) Mr. Madhav Belbase (Nepal).

PCSO Minutes Item 1: ATR on the Minutes of the 25th Meeting of PCSO

1. The Committee noted the ATR.

PCSO Minutes Item 2: Membership of PCSO and its Workbodies

2. Based on the recommendations of the various workbodies associated with it, PCSO reviewed the membership and recommended for acceptance by IEC the changes as proposed in **Annex 6 (page 49)**.

PCSO Minutes Item 3: Vice Presidents' reports: Strengthening regional cooperation and activities of National Committees

3. VP Bong Hoon Lee, VP Mr. Laurie C. Tollefson and VP Dr. Ding Kunlun explained various regional activities in their respective regions. Vice President Hon. Mr. Adama Sangare and VPH Dr. Gerhard Backeberg explained the various activities organized under ARID and SARIA respectively. VP Dr. Hüseyin Gündoğdu also informed of the various collaborations activities between TUCID and IRNCID.

PCSO Minutes Item 4: ICID Vision 2030

4. The Committee expressed its appreciation to Dr. Olcay Unver of FAO for making a presentation on "World Agriculture 2030/2050" which set the tone for the deliberations on ICID Vision 2030 Draft Document.

5. The Committee appreciated the efforts of CG set up to draft ICID Vision 2030 Document and recommended the Draft ICID Vision 2030 document for Council's approval, based on the presentation made by VP Hüseyin Gündoğdu, Chair, CG. The Committee recommended that IEC adopt the Vision statement, the Mission statement, the Six Organizational Goals and the ICID's role in achieving these Goals as given in **Annex R4.1 (page 31) of Resolution IEC-4/66**.

6. Chair PCSO informed that earlier during the 66th IEC the document had been introduced by the President during the Plenary session of IEC where he had given the background of setting up of the Consultative Group set

up with Chair PCSO as the Convener and VPH G Beckeberg, VPH Wilhem Vlotman, Ian Makin, Dr Charlotte de Fraiture and Dr Sylvain Perret as members and SG Avinash C Tyagi as its member secretary. He informed that the CG had prepared a questionnaire which was sent to all the NCs and the experts participating in various WGs of ICID. Feedback was received from 8 NCs and 59 experts. Based on the response to the questions, the discussions the CG had during the two video-conference they had among themselves; and the interaction, Presidents and Secretary General had with the NCs they visited and the expectations the Ministers and other policy makers had from ICID as an organization, a Draft ICID Vision 2030 Document had been prepared. The Document was sent to all the NCs, experts, members of the various work bodies on 28 August 2015 for submitting their suggestions, views, comments and response to the CO by 30 September 2015. Comments received from the NCs and some of the international partners have been compiled and presented during the IEC meetings.

7. The Chair informed the Committee members that the ICID Vision 2030 Document was presented during the meeting of NC representatives and Office Bearers on 13 October 2015 where it was discussed in details and certain suggestions were made for modifying the mission and the six goals. The revised vision, mission and the six goals were presented at the meeting of the Office Bearers Committee on 14 October 2015. Chair PCSO presented the background, the process and the responses received so far to the members of PCSO. Members discussed them in detail during the meeting. Some of the changes were carried out on line. Based on these outcomes, the vision, mission and the six goals as given in Annex R4.1 (page 31) were agreed to by the Committee to be recommended to IEC for adoption.

8. The Committee also discussed the proposed way forward as suggested by the CG. The Committee recommended that the CG should be charged to develop an Action Plan so that the organizational goals as recommended above can be achieved. It was also suggested that, if required, a specialist in developing Action Plans may be incorporated in the CG. The Committee also felt that the CG should also suggest the changes required in the functioning of the various workbodies.

PCSO Minutes Item 5: Membership of ICID

PCSO Minutes Item 5.1: Review and Reactivation of Associate Membership of ICID

9. The Committee noted that the NCs of Fiji has paid their membership up to 2014 and that the Sudan National Committee has reactivated its membership. The Committee recorded its special appreciation to Prof. Abdin Salih, University of Khartoum, Governing Body Member of UNESCO-IHE, for the support in making possible the reactivation of Sudan National Committee. NC of Ukraine has paid up their dues up to 2014 and is recommended to be reconfirmed as member with effect from September 2015. NC of Myanmar has opted to pay their outstanding dues in instalments and has also paid the subscription for 2015 along with first installment of arrears. The Committee welcomed Myanmar National Committee (MNCID) back as ICID Member.

10. The Committee appreciated the efforts of Vice Presidents of the concerned region in the reactivation of Associate Members in their region, especially VP Bong Hoon Lee for his efforts to reactivate Ugandan National Committee (UNCID) and MNCID.

11. The Committee recommends that the NCs should broadbase their membership at the national level in order to provide a platform to all the stakeholders in the agriculture water management, as decided vide IEC Resolution No.IEC-1/64. This will help them in enhancing active role in sustainable development within their countries.

PCSO Minutes Item 5.2: Recommendations of the Direct Membership Administering (DMA) – Sub Committee

12. The Committee supports the recommendations made by the DMA Sub-Committee and of PFC to IEC for granting direct membership to the following applicants:

Sl. No.	Name of Applicants	Country	Type of Membership Applied for
1	Md. Samiul Ahsan Talucder	Bangladesh	Individual (Young Professional)
2	Mr. Aytekin Turgay	Turkey	Life Membership (Individual)
3	Prof. Prashanta Kumar Bordoloi	India	Life Membership (Individual)
4	Jain Irrigation System Ltd.	India	Company (C) for Three Years

PCSO Minutes Item 6: Collaboration and cooperation between ICID and other international organizations

13. The Committee appreciated the active cooperation with various International Organizations and collaborative activities undertaken during the year 2014-15 benefitting a number of ICID member countries in African, Asian and European regions.

14. The Committee commended the standing MoUs with WMO which has resulted the financial support from WMO for various joint activities with ICID like Climate Services User Forums in April 2015 in Dhaka as well as for enabling a number of participants under ICID YP Scholarship from developing countries in Asia and Africa to attend this Conference and organizing the Training.

15. The Committee appreciated ICID for the initiation of World Water System Heritage (WSH) in collaboration with the World Water Council, during its Governorship for the term 2012-2015 and supported the decision to bid for the position of governorship at the WWC for another three year period so that the initiative of WSH could be brought to a fruitful conclusion.

16. The Committee also noted the proposed MoU with African-Asian Regional Development Organization (AARDO), regional body focusing mainly the rural development through agriculture in African and Asian countries and strongly recommends collaborating with them, particularly providing inputs on water issues for the rural development. The Committee also noted the close cooperation with the international partners with which the International Technical Advisory Committee of WIF2 was developing the technical program.

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

17. Dr. Sylvester Mpandeli, Chair of AFRWG presented its report and based on the report, the Committee noted that the Capacity Development strategy for Africa has been provisionally adopted and is already on the website of ICID, and the WG has given the last opportunity to provide any additional inputs up to 30 November after which it will be finalized and published as a in soft version to be launched formally at the 4th African Regional Conference in Aswan City Egypt in April 2015. It also noted that the WG has decided to hold a regional Training Workshop back to back with the 4th ARC that will be supported from Central Budget. The WG also informed that some of the Francophone members of the region desire that there should be provision of simultaneous translation at the AFRWG meeting and the organizers of the future events may be requested to support the same. The Committee recommended that PFC may also take note of this requirement.

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

18. VPH Dr. Laszlo G. Hayde, Chair of ERWG presented its report and based on the report, the Committee recommended that Dr. Ian Makin be accepted as Chair of ERWG. The Committee congratulated ERWG on completion of 20 years of its establishment. The Committee was informed of the withdrawal of some of the founding member countries from the membership of the WG. The Committee recommended that a Task Force should be set up to study the reasons responsible for the gradual withdrawals of NCs from Europe from the membership of ICID and other issues faced by these NCs.

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

19. VPH Dr. Karim Shiati, Chair of ASRWG presented its report. The Committee appreciated the key note address by Dr Sang Mu Lee, Chairman of the KRC which was enthusiastically received by the WG.

20. VPH Dr. Ota, as Convener of the ICID Task Force on WWF7, made his report and thanked the support provided by the Japanese National Committee. Dr. Ota appraised the WG on the contribution of ASRWG to WWF7 and also requested the active participation of ASRWG to WWF8. The Committee appreciates all the efforts and contributions made by Dr. Ota for his untiring efforts for his contributions to the successful participation in the 7th WWF.

21. WG presented the proposal of Iranian National Committee (IRNCID) to host the 8th Asian Regional Conference simultaneously with the 13th International Drainage Workshop which is scheduled to be held in Khuzestan province of Iran in March 2017.

22. The representative of the organizers explained that in order to explore and expand possibility of regional cooperation among relevant countries, IRNCID proposes to organize the 'Ministerial Level Meeting for Regional Cooperation on Water and Food Challenges' simultaneously with the 13th IDW. As of now it is proposed to invite

ministers from three countries – Iran, Turkey and Russia for the meeting but possibility of inviting ministers from other regional countries is also being considered. During the meeting number of issues of mutual interest will be discussed and memorandum(s) of understanding (MOU) would be developed. IRNCID representative pointed out that this event would assist in strengthening regional cooperation among these countries. In addition to the ministerial level meeting, IRNCID is also planning to organize number of other related side events with the support and collaboration of international and national partners.

23. The Committee appreciated the efforts being made by IRNCID to foster regional cooperation and expand the scope of 13th IDW. However, considering that a big event of WIF2 was already scheduled in Asia (Chiang Mai, Thailand) just 4 months before the Ahvaz event, it might not attract sufficient participation from Asian Region. The Committee observed that strategically, organizing the Asian Regional Conference within such a short gap would not be strategically advisable for both the events.

24. A proposal for organizing Asian Regional Conference was made by the Director General of Irrigation and Chairman of NeNCID in March/April 2018 in Pokhara, Nepal, which Committee recommends to be provisionally accepted.

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)

25. VPH Prof. Peter Kovalenko, Chair presented the report of WG-IDSST and based on the report, the Committee recommended that the request of the WG for the assistance of CO in translating some of the documents produced by the Group into English for wider publication may be considered favourably by PFC. The Committee recommended that the WG may be extended for one year up to 2016 and that a new Scoping Document may be developed for the new WG with revised mandate and presented at the 67th IEC meeting.

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

26. Mr. Luis Rendon Pimentel, Chair presented the report of C-CONGR and based on the report, the Committee recommended that mandate of the C-CONGR in view of the establishment of the new sub-committee on themes etc under PCTA, be modified as follows:

- To recommend general improvement in conduct of Congresses/Conferences sessions;
- Representatives/Organizers of the ICID event to present a summary report on preparations made for the said event;
- Lessons learned / difficulties faced in organizing an ICID event;
- Propose solutions for smooth conduct of the ICID event.

27. The Committee requested Mr. Pimentel to make special efforts to use the occasion of 23rd Congress to help reactivate the NCs in Latin American and Caribbean countries.

PCSO Minutes Item 8.3: ICID Young Professionals' Forum

28. As directed by IEC at its 65th meeting in Gwangju, SG presented the concept note which lays down the scope and rules to be followed in managing the ICID-YPF. As brought out there in the main objectives of establishing the Forum are to:

- 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,
- e. Maintain and enhance links with national and international youth having interests in water related subjects or the activities, relevant to ICID objectives.

29. The Committee recommended that the ICID-YPF should be an open forum based on LinkedIn group and may be organized based on the rules as proposed in the Annex 2 to the Agenda of WG-YPF (p 78 A-B). They may be revisited based on the experience gained in managing the Forum. The WG-YPF will now be wound up and a Core Group, selected from among the active members of the Forum as prescribed in the rules. This Core Group will function as the link between the YPs and the IEC and should report to IEC through PCSO.

PCSO Minutes Item 8.4: Young Professional Mentorship Programme

30. The ICID-Forum will provide the opportunity to the experienced professional to mentor the YPs through the Forum. The experts could take lead in organizing discussions on topics of their expertise and giving their expert advice to the queries generated during such discussions.

PCSO Minutes Item 9: Organizational issues related to IEC, Congresses, Forums and Conferences**PCSO Minutes Item 9.1: Report of the Sub-Committee under PCTA to deliberate upon the themes, Topics and Work plans of the various future ICID Events including Congresses and World Irrigation Forums**

31. The Committee appreciated the report presented by the Chair of the Sub-Committee, PH Schultz on the progress.

PCSO Minutes Item 9.2: Renaming of International Micro Irrigation Symposium as International Micro Irrigation Conference

32. The Committee considered item in detail and agreed that it is quite unjustifiable just limiting the event organized on the topic of Micro Irrigation, to merely into the frame of a 'Symposium' given its global importance. The Committee recommended that the 'Micro Irrigation Symposium' be renamed as 'International Micro Irrigation Conference' as was recommended and approved in the report of MB presented at 61st IEC in Yogyakarta, truly reflecting the worldwide importance of this topic.



Report Of the 35th Meeting of the
PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)
15 October 2015, 14.00-19.30 Hours
Montpellier, France

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

Members Present: (1) Vice President Hon. Dr. Felix B. Reinders, Chairman (South Africa, 2010); (2) Prof. Graziano Ghinassi (Italy, 2012); (3) Masao Miyazaki representing Prof. Masayoshi Satoh (Japan, 2012); (4) President Hon. Mr. Peter S. Lee (UK, 2013); (5) Aynur Fayrap representing Ms. Aysen Pervin Güngör (Turkey, 2014); (6) Mr. Chaiwat Prechawit (Thailand, 2014); (7) Mr. Mehrzad Ehsani (Iran, 2014) and (8) Secretary General, ICID

Permanent Observers Present: Mr. Ian Makin, IWMI Representative.

Ex-Officio Members Present: (i) VP Laurie C. Tollefson (Canada), Co-Theme Leader, Strategy Theme – Basin; (ii) VP Dr. Mohamed Wahba (Egypt), Co-Theme Leader, Strategy Theme – Basin; (iii) VP Dr. Hüseyin Gündoğdu (Turkey), Co-Theme Leader, Strategy Theme – Schemes; (iv) VP Françoise Brelle (France), Co-Theme Leader, Strategy Theme – Schemes & Chair, WG-IDM; (v) VP Kadhim Mohsin Ahmed (Iraq), Co-Theme Leader, Strategy Theme – On- Farm; (vi) VPH Mr. Larry D. Stephens (USA), Chair, C-PR&P and Secretary, PCTA; (vii) PH Prof. Bart Schultz (The Netherlands), Chair, EB-JOUR, Chair, SC-THEMES & Convener, WG-M&R; (viii) Dr. Kamran Emami (Iran), Chairman, WG-HIST, WG-CAFM & TF-VE; (ix) VPH Franklin E. Dimick (USA), Chair, WG-DROUGHT; (x) Dr. Ruey-Chy Kao (Chinese Taipei), Chair, WG-SDTA; (xi) Dr. Sylvain Perret, Chair, WG-ENV; (xii) Dr. Tsugihiko Watanabe (Japan), Chair, WG-CLIMATE; (xiii) Dr. Ragab Ragab (UK), Chair, WG-CROP; (xiv) Dr. Samia El-Guindy (Egypt), Chair, WG-PQW; (xv) VPH Dr. Shinsuke Ota (Japan), Chair, TF- WWF-7; (xvi) Dr. Bernard Vincent (France), Chair, WG-SDG; and (xvii); VPH Dr. Hafied Gany (Indonesia), Chair, WG-IOA.

Observers Present: (i) President Dr. Saeed Nairizi (Iran); (ii) PH Dr. Chandra Madramootoo (Canada); (iii) VPH Dr. Gerhard Backeberg (South Africa); (iv) VPH Dr. Adama Sangare (Mali); (v) VP Ding Kunlun (China); (vi) Prof. Abdelhafid Debbarh (Morocco); (vii) Dr. Gong Ju (Korea); (viii) Dr. Hasan Basri Yuksel (Turkey); (ix) Mr. Ali Reza Salamat (Iran); (x) Ndongo Sene (ARID, Senegal); (xi) Karambiri Salamata (Burkina Faso); (xii) Tchouadang Kadjouga (Chad); (xiii) Ouango Francois (Burkina Faso); and (xiv) Kouyate Goundo Sisso Ko (Mali).

PCTA Minutes Item 1: ATR on the minutes of the 34th Meeting of PCTA

1. The Committee noted with satisfaction the ATR on the minutes of the 34th meeting of PCTA.

PCTA Minutes Item 2: Membership of PCTA and its Workbodies

2. In pursuance of ICID By-laws 3.8.1 (d), the President in consultation with the Secretary-General, has nominated Vice President Dr. Mohamed Wahba of ENCID and VP Dr. Ding Kunlun of CNCID as members of PCTA. The Committee also recommended the nomination of Iran NC of Mr. Ali Reza Salamat in place of Mr. Mehrzad Ehsani.

3. PCTA considered the proposals for the membership of various workbodies associated with it and recommended for their approval by IEC as per **Annex 6 (page 49)**.

PCTA Minutes Item 3: Functioning of Workbodies

4. The Committee congratulated the WG-ENV and WG-DROUGHT for undertaking consultations and discussions using video-conferencing facilities provided by CO and encouraged the other workbodies to use the facility of web-conferencing/tele-conferencing/video-conferencing to hold interim meetings and to interact with the members between two IEC meetings.

5. The members have been requested to suggest further improvements in the functioning of its workbodies so as to be able to fulfil the mandates expected from them, including bringing out useful publications, which forms part of workbodies' important mandate. The Committee recommends that the WGs should undertake all administrative decisions through video conferencing and the time during the physical meetings at IEC should be used for technical

purposes. SG also stressed that good work done by the WGs should be brought out as an article in ICID news for wider dissemination to generate more interest in the activities of WGs.

6. PCTA recommended the use of means such as *ICID News* that forms an important tool in exchanging experiences on the new developments with the non-technical stakeholders. The Committee recommends that the WGs that organize an international workshop should share the knowledge exchange with those who are unable to attend IEC physically by compulsorily contributing an article in *ICID News* communicating the brief on the topic of the workshop and its outcome for the non-specialists as well as policy makers. President, ICID suggested that the proposed transactions of the WGs should be properly advertised and disseminated before and during the IEC meetings so that interested participants can attend WG meetings.

PCTA Minutes Item 4: Revision / Updating of Multilingual Technical Dictionary (MTD)

7. The Committee noted the efforts being made to bring the MTD (CD version 2010) as well as the irrigation and drainage dictionaries in various national languages in an on-line version to make them available to various stakeholders that need to be participating in the sustainable development through agriculture water management. The Committee considers this an important input to working towards SDGs.

8. The Committee considered the background note for setting up a mechanism to review/update the existing MTD. The Committee recommends that a new work body be established including representatives from various specialized fields, at the same time representing various languages included in the MTD.

PCTA Minutes Item 5: Review of reports of the activities of Workbodies under the Strategy Theme – Basin (ST.B)

PCTA Minutes Item 5.1: Working Group on Water Management in Water Stressed Regions (WG-DROUGHT)

9. The Committee noted that the extended tenure of the WG was up to 2015. During the WG meeting Mr. Maurees Roos, USA, presented a report on the severe drought in the state of California. VPH Mr. Franklin E. Dimick, Chair of the WG, presenting on behalf of the WG, did not propose a new mandate and rather recommended creation of a Task Force on Developing Methods to Assist Countries to prepare for and Manage Drought. The Task Force would include the WG Chair and the three theme leaders. It was informed that the WG is also preparing a report for the *ICID Journal* which is planned to be complete by spring 2016.

10. Members of PCTA expressed the need for ICID to continue to work on drought issues. It was pointed out that droughts are becoming more frequent that require a better understanding of their impacts, close monitoring and preparedness to respond. Following the discussions, the Committee agreed to extend the term of the WG by one year till 2016 and requested to develop a scoping document for a WG with new mandate.

PCTA Minutes Item 5.2: Working Group on Sustainable Development of Tidal Areas (WG-SDTA)

11. Dr. Ruey-Chy Kao, Chair of the WG presented the report of the meeting of WG and informed that the WG will contribute twelve selected papers for a special issue of *ICID Journal* on SDTA in 2016. The cost of the publication of special issue will be shared by the Japanese National Committee of ICID (JNC-ICID), Korean National Committee of ICID (KCID) and the Chinese Taipei National Committee of ICID (CTCID). The Committee noted that CNCID has already contributed US\$ 5000 for the publication of the special issue. Prof. Henk P. Ritzema and Prof. Hsiao-Wen Wang have been assigned to the responsibility to lead the review committee the two-stage review process.

12. PCTA was informed that the WG will organize the scheduled Short Course (2-3 days) in Taiwan during spring 2016 for which efforts are being made to seek grants to the tune of \$100,000 USD from the Government to cover the travel expenses for the resource persons and the participants from low income countries. It was also informed that the WG will present a Scoping Document for the continuation of the activities of the WG.

13. On the request Chairman of PCTA for assisting in updating the terms included in the MTD as referred to in the Agenda of PCTA under item 4, Prof. Hajime Tanji (Secretary, WG-SDTA) volunteered to be the representation of WG-SDTA.

PCTA Minutes Item 5.3: Working Group on Environment (WG-ENV)

14. The extended tenure of the WG was up to 2015 and Dr. Sylvain Roger Perret, Chair of the WG presented the report of the meeting of the WG and informed that the WG has now developed a new mandate on environmental issues with the following mandate, which was recommended to be approved by PCTA.

- 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.

15. The Chair informed that the draft report on “Assessing the environmental impacts and the sustainability of irrigation and drainage systems: the potential contribution of Life Cycle Analysis” authored by Chairperson, Vice-Chairperson, Secretary, and Dr Kim Young from Korea is under preparation and is expected to be finalized by the end-2015/early-2016. The WG believes that a soft copy made available on the Internet may be the best way to publish this compilation of research.

16. The Committee was informed by Dr Perret that the ‘International Workshop on Ecosystem Services and multi-functionality of irrigation and drainage systems’ organized by the WG during the Montpellier meeting was well attended and a great success. Was informed that it is proposed to place presentations made during the meeting on the WG website. Prof Fraiture commented that the work presented could make a good journal special issue and Chair suggested that the WG could assist the authors with the publication. It was informed that WG Chair had requested two of the workshop contributors (Dr Damien Jourdain and Dr Sylvie Morardet) to assist him preparing a short article on ecosystem services related to irrigation and drainage systems, to be submitted to ICID News for publication. The WG recommended organizing a workshop on environment during the 67th IEC Meeting. A decision to that effect would be taken by International Technical Advisory Committee (ITAC) for 2nd World Irrigation Forum (WIF2).

PCTA Minutes Item 5.4: Working Group on Comprehensive Approaches to Flood Management (WG-CAFAM)

17. Dr. Kamran Emami, Chair of the WG presented the report of the meeting of WG. The Committee accepted the nomination of Dr Takao Masumoto (Japan) as the Vice Chair in place of Prof Klaus Rottcher (Germany) and Mr Mohmd Adnan bin Mohmd Nor (Malaysia) as the Secretary of the WG.

18. The Committee was informed that the WG had organized an International Workshop titled “Non-Structural Adaptations to Flood Management” on 12 October 2015 which was well attended and 10 papers were presented. The Chair informed that the WG is developing a publication on Adaptive Flood Management and 10 Chapters have been received. The WG was advised to prepare an article giving the outcomes of the International Workshop to be published in ICID News.

19. On the request for organizing another International Workshop during the 2nd World Irrigation Forum, PH Prof Bart Schultz, Chair of the ITAC for the Forum informed that Flood Management is one of the subthemes of the Forum. He invited the WG to take the lead in technical preparation of this subtheme.

PCTA Minutes Item 5.5: Working Group on Global Climate Change and Agricultural Water Management (WG-CLIMATE)

20. Dr. Tsugihito Watanabe, Chair presented the report of the meeting of WG. PCTA noted that the extended tenure of the WG was up to 2015 and that the working group discussed the activities and achievements in the previous term and finalized the Closure Report. PCTA was informed that the WG has recommended that Dr Waheed Hassan (Egypt) will be the focal point for the MTD activities.

21. PCTA noted that based on the discussions among the members a Scoping Document for the Working Group under the name WG on “Climate Change and Agricultural Water Management” has been developed and recommended that the setting up of the WG with the following mandate:

- (a) To share the information about prediction of the global and regional climate change and climate variability.

- (b) To explore and analyze the implications of climate change and climate variability for agricultural water management including irrigation, drainage, and flood control.
- (c) To promote archiving useful information and case studies on climate change for practical use in improved impact assessment and adaptation development.
- (d) To enhance discussion on climate change and water management at national and regional scales among the stakeholders including academician, practitioners, decision makers, media as well as farmers and water users in a region.
- (e) To join the international dialogue on Climate change and water management.

PCTA Minutes Item 5.6: Working Group on Water for Bio-Energy and Food (WG-BIO-ENERGY)

22. The Committee noted that the extended tenure of the WG was up to 2015. Mr. Laurie C. Tollefson, Chair of the WG presented the report of the meeting and informed that WG Chair will develop a closure report, which will be finalized after review by the WG Members and National Committees. The Technical report of the WG on 'Water for Bio-Energy' will be finally reviewed and placed on the WG website with the corresponding country papers as case studies. With the stepping down of VP Laurie Tollefson (Canada) as Chairman of the WG, Dr. Fuqiang Tian, China assumed responsibility as the new Chair of the group. The Committee recommended developing a revised mandate for a new WG for four years and circulate scoping document to the National Committees for their comments and inviting nominations for the new WG.

PCTA Minutes Item 5.7: Synthesis Report by Co-Theme Leaders of ST Basin [VP Laurie C. Tollefson (Canada) & VP Dr. Mohamed Wahba (Egypt)]

23. The Committee considered the report of the co-theme leaders and agreed with the assertion made by the VPs that the WGs under this theme have a distinct role to play as these WGs deal with issues which are not necessarily part of the main expertise of the NCs. At the same time there are many other regional and international agencies which have the expertise in these topics and are producing technical information that needs to be brought to the knowledge of the experts on Agriculture Water Management. Members participating in these WGs should be able to transform these special findings for the way they can be used by the AWM experts. These WGs should include experts and cooperate closely with the specialized International Agencies. Secretary General, ICID mentioned that since core group does not have the requisite expertise the aim of the WG should be to bring knowledge developed by other expert agencies in the field and share with WG members and the NCs through short communications.

24. The full status report from the Theme Leaders was presented to IEC on 16 October 2015. The presentation made by the Co-Theme Leader of Strategy Theme 'Basin' is placed at **Annex 5, page 57**.

PCTA Minutes Item 6: Review reports of the activities of Workbodies under the Strategy Theme – On-Farm (ST.OF)

PCTA Minutes Item 6.1: Working Group on Water and Crops (WG-CROP)

25. VPH Dr. Ragab Ragab, Chair of the WG presented the report of the meeting. Committee noted that WG held a Workshop and that the best papers from the workshop will be selected for a special issue of the Irrigation and Drainage Journal of ICID. The Committee was informed that the WG is preparing a Technical Report on the multi-functional use of water in paddy.

26. Dr Ragab informed that the WG had organized an International Workshop on "Precision Irrigation for Sustainable Crop Production" at the 66th IEC meeting. The Committee also noted WG recommendation to organise a Workshop on the water/food/energy nexus during the 67th IEC Meeting in Thailand. The WG was invited to take the lead in organizing the sub-theme on the subject during WIF2. On the recommendation of WG, the Committee approved extension of term of the WG by 3 years till 2019.

PCTA Minutes Item 6.2: Working Group on Use of Poor Quality Water for Irrigation (WG-PQW)

27. Dr. (Mrs.) Samia El-Guindy, Chair of the WG presented the report of the meeting of WG and informed that during the meeting following four country presentations were made:

- (a) Egyptian Practice and Experience of the Reuse of Non-conventional Water Resources by Dr. Ashraf El Sayed Ismail
- (b) 75 years of irrigation along the Lower Vaal River and tributaries in South Africa: major management interventions and current impacts on natural resources by Dr. L.D. van Rensburg
- (c) Wastewater Irrigation (WWI) in China and reuse effects—A case study by Dr. Wu Wenyong
- (d) Rural Sewage Treatment System in Japan by Dr. Takanori Nagano

28. The Committee noted that WG has prepared the following reports:
- (a) “Impact of Irrigation by saline water on soil and crop production” by Dr. Anna Tedeschi (Italy)
 - (b) “Impact of tsunami on farmland and the progress of rehabilitation after the great Japan earthquake” by Dr. Takanori Nagano (Japan)
 - (c) WG also propose to submit a report based on presentation made by Dr. Leon van Rensburg (South Africa) during the meeting.
29. The WG informed that they collaborated with the French Organizing Committee to hold a roundtable on the reuse of treated waste water wherein the WG evaluated submitted papers and made presentation during the round table, two by the Chairperson and one by Dr. Takanori Nagano (JNCID) on the Japanese experience in the waste water treatment. WG plans to place all the presented paper on the website of the WG.
30. During discussions, the issue of limited participation of members in the WG meeting emerged as one of the main concerns. The Committee suggested that, as suggested under Item 3. The WGs should avoid spending time on administrative issues and should rather bring out in advance the technical highlights of their scheduled meeting. This will help attract more participants to the WG meetings.

PCTA Minutes Item 6.3: Working Group on On-Farm Irrigation Systems (WG-ON-FARM)

31. VPH Mr. Felix B. Reinders, Chair of the WG presented the report of the meeting of WG. The Committee noted that the extended tenure of the WG was up to 2015 and that the group has finalized the Scoping Document for the new WG-SON-FARM after discussion in the WG meeting which is recommended for approval. The Committee was informed that a closure report of the activities of the WG has been prepared and was presented at the meeting. The Scoping Document was discussed in the concluding meeting of WG-ON-Farm. Based on the recommendations of the WG, PCTA recommends re-establishing the WG as “Working Group on Sustainable On-Farm Irrigation System Development (WG-SON-FARM)” with the following 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.

32. The Committee was informed that the WG discussed a proposal for the 9th International Micro Irrigation Symposium. On the recommendation of the WG the Committee approved that the name be changed from “International Micro Irrigation Symposium” to “International Micro Irrigation Conference”. A proposal of Indian National Committee for organizing 9th International Micro Irrigation Conference in 2019 or 2020 was received and recommended for in-principle approval by IEC.

33. Committee noted that following articles/reports are expected to be finalized by the end of the year:
- (a) An article on “Improvement of the On-Farm Irrigation Systems Using Simple Water Control Measuring and Application Devices”, and
 - (b) The final report on ‘Micro irrigation for smallholders and greenhouses’ for its possible publication in ICID Journal.

34. The Group discussed the updating of the Multilingual Technical Dictionary (MTD) and suggested that members will look at the contents of the technical terms in MTD related to the mandate of WG and suggest changes/modification including addition of new terms, contributing explanatory pictures, links and videos related to particular terms.

PCTA Minutes Item 6.4: Synthesis report of Co-Theme Leaders of ST On-Farm [VP Kadhim Mohsin Ahmed (Iraq) & VP Bong Hoon Lee (Korea)]

35. No Synthesis report was presented.

PCTA Minutes Item 7: Review of reports of the activities of Workbodies under the Strategy Theme – Knowledge (ST.K)

PCTA Minutes Item 7.1: Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST)

36. The extended tenure of the WG-HIST is up to 2016. Dr. Kamran Emami, Chair of the WG presented the report of the meeting of WG and informed that WG organized a Workshop on History of water crisis, old and recent issues and is finalizing a publication titled Historical Water Sustainability which is expected to be completed by the end of 2015. Committee noted the proposal of the WG to organize a Workshop on World Water system Heritage, during the Thailand, IEC Meeting in 2016. In order to continue the WG with a new mandate, Committee suggested WG to prepare a closure report of the WG and also finalize the Scoping Document (SD) of the WG with a new mandate before the end of its extended tenure.

PCTA Minutes Item 7.2: Task Force to Guide ICID Inputs to World Water Forum 7 (TF-WWF7)

37. VPH Mr. Shinsuke Ota, Chair of the TF presented a report of the meeting of TF and informed that WWF 7 was held in Korea during April 2015. Mr. Ota informed that TF has completed its mandate successfully and summarized the extensive ICID participation in WWF 7 in the closure report of the TF. He also presented the Implementation Roadmap (IR) items to which ICID has committed to. The Committee appreciated the efforts of the TF, particularly its chair Mr Ota for the excellent outcomes.

38. The TF recommended closure of TF-WWF7 and setting up of new TF WWF 8 with expanded mandate. During discussion members suggested to widen the scope of ICID involvement in other themes of the forum (energy, food) and make it as a permanent WG instead of TF. The Committee discussed these issues and approved setting up of TF-WWF8 with the following mandate for the time being and review them further in next meeting of IEC in 2016.

- (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 visibility in World Water Council.

39. President suggested that there should be overlap in the composition of new and old TFs in order to ensure continuity of activities and that the new TF should oversee implementation of IR of WWF-7. The Committee requested VPH Ota to continue to chair the new Task Force to which he expressed his inability.

PCTA Minutes Item 7.3: Task Force on Value Engineering (TF-VE)

40. Dr. Kamran Emami, Chair of the TF presented the report of the meeting of TF and informed that an Internal Workshop on 'Value Methodology for Enhancing Large Project' was organized by TF-VE on 14 October 2015 with 3 presentations from Iran and Japan and TF has decided to publish a manual on Application of Value Engineering in Irrigation and Flood Projects based on the mandate and activities of the TF.

41. Committee noted that TF is proposing to organize an international Workshop on application of Value Engineering for saving in irrigation and flood projects during 67th IEC Meeting in Thailand. However, the decision for the same would be taken by the ITAC based on the overall program of the side events.

42. The TF recommended that Value Engineering be included as an item for Technical Support Unit and requested for a second, one-year extension of the term of the Task Force and convert it into a WG. Committee requested TF to prepare a closure report bringing out the outcomes of the task force during the last three years and prepare justification for the extension of the TF or creation of a working group on VE.

PCTA Minutes Item 7.4: Committee on Public Relations and Publications (C-PR&P)

43. VPH Mr. Larry D. Stephens, Chair of the Committee presented the report of the meeting of C-PR&P and conveyed recommendation of the Committee to establish a new work body on the MTD to help in updating and improving the MTD, especially with regard to the new languages. Committee further suggested having a representative of each of the existing (and proposed) language in the dictionary as members of the work body. PCTA agreed in principle for establishing such a work body and requested SG to prepare a Scoping Document for the same.

44. The Committee was informed that CPR&P, also reviewed the ICID website and noted the continuing excellent work of the Central Office. However the Committee recommended that the Home Page of the website be simplified, as there seems to be too much material on the home page.

45. PCTA, based on the recommendations of CPR&P, urges the NCs to provide information about the publications (in the various languages) being brought out by them to be included in the Integrated Library Management System. Secretary General, ICID requested WGs to review thematic web pages of ICID web site and update these for any changes as appropriate. SG further requested members to provide links to various technical tools/models related to agriculture water management available in public domain for inclusion in ICID web site.

PCTA Minutes Item 7.5: ICID Journal Editorial Board (EB-JOUR)

46. PH Prof. Dr. Bart Schultz, Chair of the EB presented the report of the meeting of EB. He informed that Dr Hector Malano has now become Editor Emeritus; while Prof Jiusheng Li has accepted to be the Joint Editor; and Prof Graziano Ghinassi (Italy), Dr Henk Ritzema and Dr Laszlo Hayde (Hungary) are accepted to be the Associate Editors of Irrigation and Drainage Journal of ICID.

47. Chair of EB also informed that the following four Special Issues may be expected in the coming period:

- (a) Special Issue in the regular series with selected papers of the Gwangju (Korea) Congress (2014). It will most probably be published as issue 5 of this year;
- (b) Sponsored Special Issue with selected papers, in principle based on Gwangju Congress papers by authors from Asia. It is expected that this issue can be published in addition to the first issue of next year;
- (c) Sponsored Special Issue with selected papers in principle based on Gwangju Congress papers by Korean Specialists. It is expected that this issue can be published in addition to the second or third issue of next year;
- (d) Sponsored Special Issue on New Developments on Irrigation in Africa. Also this special issue can be published in addition to the second or third issue of next year;

48. PCTA was informed that in the calendar year 2014, sixty nine papers were published in the Irrigation and Drainage Journal. The best paper out of all these papers has been selected by the Chairman in cooperation with the Joint and the Associate Editors. Joint winners of the 'Best Paper Award 2015'¹ announced during the first part of the IEC meeting on 12 October 2015 are: Willem F. Vlotman and Clarke Ballard for the paper "Water, food and energy supply chains for a green economy" which paper was published in Issue 63.2 of I&D Journal.

49. PCTA noted that for the year 2015 there will be five regular issues of 144 pages, each and for 2016 the subscriptions will be US\$46 for online only and US\$55 for online and print.

50. Committee noted that some National Committees have not provided ICID Central Office the required information on the dissemination of the 5+5 free copies and as a result not all the 800 copies under the Agreement could be subscribed in 2015. Members discussed the repercussion of moving on to 100 per cent on-line access of I&D Journal in view of the recent experiences/complaints from some NCs. Committee suggested that as one of the measures to improve dissemination of the Journal, the young professionals that were invited for the Montpellier meeting may also be provided free online subscription to the Journal.

PCTA Minutes Item 7.6: Synthesis report of Co-Theme Leaders of ST Knowledge [VP Basuki Hadimoeljono (Indonesia) & VP A.B. Pandya (India)]

51. No report was given.

PCTA Minutes Item 8: Presentation on improvement in irrigation service provisions

52. Mr. Arnaud Cauchois, Senior Water Specialist, Asian Development Bank (ADB) made a presentation and shared their experiences in the field of modernization and water use efficiency improvement of irrigation systems based on the outcomes of the studies, covering developing member countries in South Asia (India, Nepal and Bangladesh). The Committee placed on record its appreciation to ADB and Mr. Cauchois for sharing ADB's experiences and requested the WGs to consider the experiences while developing their Work.

¹ The Best Paper Award is 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.

PCTA Minutes Item 9: Review of reports of the activities of Workbodies under the Strategy Theme – Schemes (ST.S)

PCTA Minutes Item 9.1: Working Group on Sustainable Drainage Management (WG-SDG)

53. Mr. Bernard Vincent, Chair of the WG presented the report of the meeting of the Group and informed that a Workshop on “Future of Drainage under Environmental Challenges and Emerging Technologies” was organized during the Montpellier IEC Meeting. WG Chair further informed that Dr. Gurbachan Singh from India forwarded a document entitled “Bio-drainage for Management of Waterlogging and Soil Salinity.” Since it was not possible to examine the document during WG meeting, Central Office is asked to circulate the document to the members, for feedback and comments. Committee noted that the 13th International Drainage Workshop will be held in Iran during March 2017 and that the WG will be fully involved in finalization of its technical program.

PCTA Minutes Item 9.2: Working Group on Institutional Aspects of Irrigation and Drainage System (WG-IOA)

54. VP Dr Hafied Gany, Chair of the WG, presented the report of the meeting of WG. The Chair reported that the overall program of the WG for the six year period will include: (i) Establishment phase; (ii). Literature and case study review; (iii). Study, investigation, and analyses of material of workshop, seminar, symposium and subsequent publications – with the compilation of relevant materials in the following categories: Legal Framework; Institution and Organization; Approaches and role of WUAs; Participatory Irrigation Management (PIM); Irrigation Drainage Management Transfer (IDMT); PDIM and Public Private Partnership (PPP) including communication and interaction with other irrigation related organization such as INWEPF, PAWEES and institution and organization on Water System Heritage; and (iv). Publication of books, manuals, guidelines and other relevant publications on the topic of institution and organization. The Committee was informed that the WG will use online communication for implementing its plan of work.

PCTA Minutes Item 9.3: Working Group on Modernization and Revitalization of Irrigation Schemes (WG-M&R)

55. PH Dr Bart Schultz, the convener of the first session of the WG, presented the report. He informed that group elected Mr. Ian Makin (UK) as its Chairman. PCTA noted that Prof. Shinsuke Ota (Japan) had made presentation on ICIDs involvement in the 7th World Water Forum and that the follow-up on the Irrigation Roadmap would largely be the responsibility of the Group. WG discussed and refined/updated the work plan as presented in the scoping document considering action points of WWF7 related to ICID as number of these refer to the scope of work of WG-M&R.

56. Three brief presentations were made during WG meeting: (i) FAO work with respect to modernization and revitalization of irrigation schemes by Thierry Facon, (ii) Defining modernization of Irrigation Systems by Ian Makin, and (iii) brief overview of modernization aspects by Harish K Varma, Executive Director, CO.

PCTA Minutes Item 9.4: Synthesis Report by Co-Theme Leaders on ST Schemes [VP Hüseyin Gündoğdu (Turkey), VP François Brelle (France) & VP Dr. Ding Kunlun (China)]

57. Based on the discussion document prepared by VPH Dr. G. Backeberg on Strategy Theme “Systems” and included in the minutes of 63rd IEC Meeting, three new Working Groups have been established: WG-IOA, WG-SDG and WG-M&R based on their scoping documents and they have already held their first meetings during the 66th IEC meeting in Montpellier, France. Three other working groups have also finalized their scoping documents and recommended by PCTA to be established as given in Item 10. The Committee requested that the National Committees send nominees as members to these groups. PCTA noted that the process of establishing/re-constituting a WG based on consultation through the scoping documents, has given a better common understanding of the scope of the WG. Any duplication or gaps among various WGs should be looked into by the strategy theme leaders.

PCTA Minutes Item 10: Newly Proposed Workbodies

58. The Committee considered the Scoping Documents (SDs) developed for the establishment of the following three new WGs as presented by the chairs of the Core Groups who lead the development of the documents.

PCTA Minutes Item 10.1: Working Group on Irrigation Development and Management (WG-IDM)

59. Vice President Mr. Francois Brelle, who was elected as the Chair of the WG-IDM, presented a report on the informal meeting of the WG. Based on the outcomes of the informal meeting of the Group and revised Scoping Document for WG-IDM, the Committee recommends setting up of the Working Group on “Irrigation Development

and Management". The Committee requested NCs to nominate experts dealing with the concerned topics to contribute to the activities of the group.

60. PCTA accepted the mandate of the group as proposed at the informal meeting of the proposed WG, as follows:

- (a) water resource governance and integrated water resource management;
- (b) assessment of irrigation development potentials;
- (c) assessment of water demand;
- (d) development of water resources and economic scarcity of water.
- (e) social drivers and resistances to development of irrigation and progress in water management;
- (f) water balance approach in irrigation (and other ancillary uses);
- (g) management of multiple water resource (conjunctive use of surface and groundwater)
- (h) management of multi-use water service;
- (i) performance evaluation of irrigation schemes and benchmarking;
- (j) ways towards cost reduction alongside with performance improvement

61. VP Mr. Francois Brelle suggested, in addition to establish some sort of formal coordination mechanism among the WGs-M&R, WATS, PQW and On-Farm as their mandate are related and complement/supplement the work of each other. The coordination mechanism may consist of respective Theme leaders and WG Chairs and Co-Chairs and they can interact through virtual meeting.

PCTA Minutes Item 10.2: Working Group on Capacity Development, Training and Education (WG-CDTE)

62. Secretary General Eng. Avinash C. Tyagi presented scope and mandate for the proposed WG. Based on the discussion, the Committee recommended setting up of a new Working Group on Capacity Development, Training and Education with the following mandate and the NCs were requested to nominate experts dealing with the concerned topics to contribute to the activities of the group. Committee accepted proposal to elect Prof. Abdelhafid Debbarh (Morocco) as Chair of new WG-CDTE. The mandate of new WG-CDTE thus recommended, will be as follows:

- (a) Coordinate and guide the knowledge management activities of the Commission and the capacity development activities by various WGs.
- (b) Compile the status of training and educational programmes offered in different regions,
- (c) Compile the Educational Programs being offered in Irrigation and Drainage in different regions;
- (d) 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;
- (e) Explore the scope of use of IT in capacity development including distant learning, and implement where feasible;
- (f) Make available various tools required for sustainable development;
- (g) Oversee the establishment and functioning of a Technical Support Unit for supporting NCs; and
- (h) Facilitate the process of balancing education and training requirements, and provision and training services.

PCTA Minutes Item 10.3: Working Group on Water Saving in Irrigated Areas (WG-WATS)

63. Based on the outcomes of the informal meeting of the Group, the Committee recommends setting up of a new Working Group on "Water Saving in Irrigated Areas" and requested the NCs to nominate experts dealing with the concerned topics to contribute to the activities of the group. Mandate of new WG-WATS will be as follows:

- (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.

64. PCTA recommends Mr. Mehrzad Ehsani., Iran, as the Chair of WG-WATS, who was elected by the members present at the informal meeting of the proposed WG.

PCTA Minutes Item 11: Report on the outcome of 26th ERC

65. On behalf of AFEID, VP Mr. Francois Brelle presented report of 26th ERC which was successfully concluded on 15th October 2015. An outcome of the ERC was a proposal to create an ICID work body on groundwater. PCTA accepted the proposal in principle and suggested AFEID to prepare a scoping development for a WG on Ground Water for consideration of IEC.

PCTA Minutes Item 12: Report of the Sub-Committee on Themes, Topics and Work Plans of future ICID Events

66. The Committee considered the report presented by PH Bart Schultz, Chair of the Sub-Committee under PCTA to deliberate upon the Themes, Topics and Work plans of the various future ICID events including Congresses and World Irrigation Forum and accepted in principle the themes and sub-themes for future ICID events- Congress, WIF etc. (**Annexes R3.3, R3.3A and R3.3B (pages 25, and 27-28) of Resolution IEC-3/66**). The Committee considered and accepted recommendation of the Sub-Committee for setting up of an International Technical Advisory Committee (ITAC) for 23rd ICID Congress to develop the scope of the Mexico Congress.

67. Committee noted positive and good progress in respect of WIF2 and 67th IEC in Thailand in 2016. Based on the suggestion of the Sub-Committee, PCTA requested Central Office to disseminate the approved standard format for submitting proposal for organizing workshops during IEC meetings.

PCTA Minutes Item 13: Setting up of Technical Support Unit (TSU) in ICID

68. Secretary General Er. Avinash C. Tyagi presented the proposal for setting up of a TSU in ICID. After deliberations the Committee recommended and IEC approved setting up of a Technical Support Unit (TSU) in ICID. Committee further recommended setting up of a Core Group consisting of President ICID; Chair PCTA; Chair PCSO; Chair AFRWG; Chair ASRWG; Chair of CDTE; Nominees of the financial partners, and Secretary General, ICID as Convener, to prioritize and finalize the work program of TSU and review and monitor progress of activities of TSU **Annex R3.1 (page 19) of Resolution IEC-3/66**.



**Minutes of the 26th Meeting of the
COMMITTEE ON CONGRESSES/CONFERENCES (C-CONGR)
13 October 2015, 09:00-10:30 hours
Montpellier, France**

Year of Establishment: 1990

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

Members present: (1) Dr. Luis Rendón Pimentel (Mexico), Chairman; (2) VP Bong Hoon Lee, representative of KCID; (3) Mr. Mehrzad Ehsani, representative of IRNCID; (4) Dr. Somkiat Prajamwong, representative of THAICID; (5) VP Dr. Mohamed Abd-El-Moneim Wabha, representative of ENCID; and (6) Er. Avinash C. Tyagi, Secretary General, ICID.

Observers: (i) Ir. Waldo Ojeda (Mexico); (ii) Mrs. Irene Bondarik (Russia); (iii) Mrs. Thayida van Corstanje (Thailand); (iv) Ms. Nurgul Uzucek (Turkey); (v) VP Dr. Huseyin Gundogdu (Turkey); (vi) Prof. Syaiful Mahdi (Indonesia); (vii) Dr. Arthon Suttigarn (Thailand); (viii) Dr. Young D. Kim (Korea); (x) Ir. Gong Ju (Korea); (xi) Ir. Dave Murray (Canada); (xii) Ir. Warren Helgason (Canada); (xiii) VP Laurie C. Tollefson (Canada); (xix) Ir. Patrick Hemera (Mexico); (xx) Ir. Juan Manuel Gozalez-Camacho (Mexico); (xxi) Ir. Narges Zohrabi (Iran); (xxii) VPH Shinsuka Ota (Japan); (xxiii) Mr. Satit Maneepai (Thailand); (xxiv) Dr. Pradab Kladkempetch (Thailand); and (xxv) Ir. Wimolpat Bumbudsanpharoke Khamkanya (Thailand).

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

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

1. The Chairman Dr. Luis Rendón Pimentel (Mexico) presented the report regarding actions taken on the decisions made during the last meeting of the Committee at Gwangju (2014), Korea.

C-CONGR Minutes Item 2: Membership of the Committee

2. The members noted the composition of the Committee given in the Agenda and expressed satisfaction.

C-CONGR Minutes Item 3: Revised mandate of the Committee

3. A Sub-Committee under PCTA has been establishment to look into the themes, topics and work plans of future ICID events. Accordingly, the Committee reviewed the mandate of C-CONGR and recommended that it should be revised as follows:

- (a) To recommend general improvement in conduct of WIFs, Congresses, Conferences and other ICID events;
- (b) Representatives/Organizers of the ICID events to present a summary report on preparations made for the said events;
- (c) Share the lessons learned / difficulties faced in organizing the events; and
- (d) Make proposals for the smooth conduct of the ICID events.

C-CONGR Minutes Item 4: Overview of the Montpellier (France) meetings (11-16 October 2015)

4. Dr. Dominique ROLLIN (France) reported on the arrangements made for the Montpellier meetings. The members appreciated the arrangements made. It was suggested that the duration for the WG meetings should be 180 minutes since 90 minutes at Montpellier meeting were not sufficient to complete the business of the WGs. It was also suggested that in order to ensure the participation of the members in the WGs, the study / technical tours should be avoided during the days of the meetings.

5. The members expressed their concerns that during the 26th European Regional Conference (ERC), the participants had not received any information in respect of the abstracts / technical papers presented at the conference. The Committee recommends that the organizers should invariably make available pre-conference proceedings so that the participants could benefit from all the papers presented.

C-CONGR Minutes Item 5: Feedback from the organizers of the past events

C-CONGR Minutes Item 5.1: Feedback from 22nd ICID Congress and 65th IEC, Gwangju, Korea in Sept. 2014

6. VP Bong Hoon Lee (Korea), as representative from KCID apprised the members on lessons learnt. The Committee appreciated the excellent arrangements made during the Congress. It was pointed out that efforts were made to mobilize the participants from NCs from developing countries where Korea Rural Corporation (KRC) was actively engaged in collaborations. The members were of the opinion that this is a good way to mutually support the members of NCs and bringing those countries into ICID fold who might be relegated to Associate.

C-CONGR Minutes Item 5.2: Feedback from 1st WIF and 64th IEC Meetings, Mardin, Turkey in Oct. 2013

7. Ms. Nurgul UZUCEK (Turkey), as representative from TUCID shared their experiences about the ICID's First World Irrigation (WIF1), together with 64th International Executive Council (IEC) meetings which were successfully held from 29th September to 05 October 2013 at Mardin, Turkey. The Committee appreciated the herculean efforts made by TUCID given that there was little time for preparation.

C-CONGR Minutes Item 6: Preparations for the future events for the next 3 years

C-CONGR Agenda Item 6.1: 4th African Regional Conference, 26-28 April 2016 at Cairo, Egypt

8. VP Dr Wahba (Egypt), as representative of ENCID, informed that the second announcement for the 4th African Regional Conference (ARC) has been brought out and distributed at the Conference here in Montpellier. The theme of the 4th African Regional Conference is "Agricultural Land and Water Management for Sustainability under Climate Variability in Africa". Members were concerned about the venue of the Conference as it would require at least one extra day for travelling to Aswan City, the host city instead of Cairo. Dr Wahba explained that the cheap accommodation and proximity to one of the unique project in Egypt where a technical tour will be arranged were sufficient to outweigh this disadvantage.

C-CONGR Agenda Item 6.2: 2nd WIF and 67th IEC, 06-12 November 2016, Chiang Mai, Thailand

9. Dr. Somkiat Prajamwong (Thailand), Secretary General of THAICID informed that the preparations for the event are going on well and International Technical Advisory Committee (ITAC) and International Steering Committee (ISC) are scheduled to meet during the Montpellier meetings to take the preparations forward. The main theme of 2nd World Irrigation Forum (WIF2) is "Water management in a changing world: Role of Irrigation for sustainable food production". It was informed that Chiang Mai is a very well connected through international airlines and good accommodation has been negotiated.

C-CONGR Agenda Item 6.3: 13th International Drainage Workshop (IDW), Ahvaz City, Khuzestan Province, Iran, March 2017

10. Mr. Mehrzad Ehsani (Iran), as representative from IRNCID, presented the proposal and informed that Ahvaz City can be reached via Tehran which is well connected by International airlines. It was mentioned that Ahvaz City is also connected through two international airlines: Turkish and Emirates. The Announcement for the event was also distributed.

11. On the request for converting this event into Asian Regional Conference, it was pointed out that the proximity of two events in Asia in the same year, with a gap of only 3-4 months with WIF2 in Chiang Mai, Thailand is likely to effect the attendance both at the 23rd Congress in Mexico in October 2017 as well as WIF2 and therefore needs to be taken into account. It was pointed out that the issue needs to be presented at Asian Regional Working Group (ASRWG) meeting.

C-CONGR Agenda Item 6.4: 23rd Congress and 68th IEC and Congress, 08-14 October 2017, Mexico City, Mexico

12. Ms. Patricia (Mexico), as a representative from MXCID apprised the members on the preparations made for the Congress with a short film. The first announcement (23rd Congress) was made available during the meeting.

C-CONGR Minutes Item 7: Proposals for future ICID Conferences

13. The Committee noted that Canadian National Committee has proposed to organize the 69th IEC in Saskatoon, Canada.

C-CONGR Minutes Item 8: Any other business

14. The meeting ended with thanks to the Chairman.



**Minutes of the 6th Meeting of the
WORKING GROUP ON IRRIGATION AND DRAINAGE IN THE STATES UNDER
SOCIO-ECONOMIC TRANSFORMATION (WG-IDSST)
13 October 2015, 09.00-10.30 hours
Montpellier, France**

Year of Establishment: 2009

Completion of the Mandate: 2015

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) Dr. Shukhrat Mukhamedjanov, Secretary (Uzbekistan); (2) Dr. Alexander Solovyev (Russia) represented by Mr. Berlizov Dmitriy.

Member Honorable Present: President Dr. Saeed Nairizi (Iran).

Observers: (i) Sandor Szalai (Hungary); (ii) Bakhrom Gafarov (Tajikistan); (iii) Shahlo Rahimova (Tajikistan); (iv) Zarif Valizoda (Tajikistan); (v) Dr. Sylvester Mpandeli (South Africa); (vi) Mr. Stephen Mills (Australia); (vii) Peter Yakubu Manjuk (Nigeria).

Dr. Shukhrat Mukhamedjanov, Secretary (Uzbekistan) Chaired the meeting in absence of Prof. Peter Kovalenko (Ukraine), Chair of WG-IDSST.

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

1. Dr. Shukhrat Mukhamedjanov (Uzbekistan) presented the report on the follow up actions on the various decisions / proposals made at its last meeting held at Gwangju, Korea (2014).

WG-IDSST Minute Item 2: Review of the membership of the working group

2. The Tajikistan National Committee first proposed Mr. Baratov Rustam Okilovich for the membership of the working group. However, later it replaced him with Mr. Bakhrom Gafarov was present and his membership was accepted.

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

3. The group noted that Dr Shukhrat Mukhamedjanov provided five reports during the Gwangju meeting (2014) which have been since uploaded on the ICID website. Further Mr Bakhrom Gafarov (Tajikistan), Mr. Dmitriy Berlizov (Russia) and Dr. Sandor Szalai (Hungary) presented their experiences on irrigation and drainage situation in their countries. They concluded that to develop and strengthen the network among the countries, there is a need to accept the following challenges:

- (a) Every year each country prepare/compile/ shared information about existing situation and problems (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 site such as SIC-ICWC;
- (c) ICID Central Office to provide financial support for e-publication and translation in English;
- (d) To organize regional meeting of all member countries before ICID Congress and/or irrigation forum (once in three years).
- (e) To organize video conference with WG-IDSST members in the beginning of 2016.

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

4. WG discussed the common issues of agriculture water management such as decrease in irrigated area, states of institutional organizations etc. affecting states with economy in transition. In absence of VPH Prof. Dukhovny, latest status of finalization of report could not be discussed. However, WG Chair requested members to send their views/ comments on the report, if not done so far so that report can be finalized and put on WB website (WG Chair, Vice Chair, Secretary may review the minutes and update/ modify as per the latest discussions during the meeting).

5. WG Chair Kovalenko and WG Vice Chair Prof. Dukhovny during Mardin meeting requested HQ ICID and President to find sponsorship for preparation and publishing similar review as was done in 2007 under the leadership of Prof. Dicitrix.

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

6. Chairman informed all participants that in June 2015, VPH Peter Kovalenko informed that in spite of his repeated requests, there was no response from the National Committees in updating the survey. It was decided to re-enthuse the member countries once again and to prepare/collect all information regarding the problems in all member countries by end of December 2015.

WG-IDSST Minute Item 6: Development of appropriate advanced irrigation and drainage technologies

7. It was proposed that every year, all the experiences and solutions from each country be presented at the WG-IDSST meeting and later compiled for e-publication.

WG-IDSST Minute Item 7: Create awareness about irrigated/ drained agriculture (capacity building)

8. The experience of the demonstrated methodology of all countries and existing international projects for field in irrigated/drained agriculture will be used to create awareness through website, publication and regional conferences.

WG-IDSST Minute Item 8: Exchange of information (video/audio conferencing)

9. After discussion in meeting, members decided to organize video conference among WG-IDSST members in the beginning of 2016.

WG-IDSST Minute Item 9: Summary of activities, Closure report of the WG

10. The summary report of the WG (2009-2015) was presented. The highlights of the WG activities were –

- (a) An outstanding meeting of 5 Heads of States – Presidents of Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan took place on 28 April 2009 in Almatty. Later, a special session on “Aral Sea Basin Initiative” was organized during 5th ARC at New Delhi in December 2009.
- (b) For monitoring and evaluation of the current situation in the member countries and identification of common and specific problems, Chairman VPH Prof. Kovalenko proposed and circulated formats for collecting country information (2010).
- (c) Prof. Kovalenko and Dr. Mukhamedjanov together with Ac. Kizayev prepared a concept paper and presented it in the Tashkent Conference in May 2011. The expected result of the project was to consolidate networking activities within the WG and drafting the proposal for a larger joint project.
- (d) Dr. Shukhrat Mukhamedjanov (Uzbekistan) made a presentation on “Knowledge base for farmers” at the meeting in 2012 at Adelaide, Australia and intensive discussion took place on ways to transfer the best experience and to create awareness about advances in irrigated agriculture.

- (e) In 2013, VPH Prof. V.A. Dukhovny together with Chairman Prof. Peter Kovalenko provided guidance for uniting forces of the WG, United Nations Economic Commission for Europe (UNECE), Eastern Europe, Caucasus and Central Asia (EECCA), INBO network, GWP Central Asia and Caucasus (CACENA) for organizing events of common interest. A big event was organized in October 2013 in Moscow under the umbrella of EECCA INBO network with participation of GWP, CACENA and WG-IDSST, where Prof. Kovalenko made a speech where more than 200 representatives from 11 countries were present.
- (f) Chairman VPH Peter Kovalenko presented some data (Russia, Ukraine and SIC ICWC for all Central Asian States) which clearly indicated that there was reduction of irrigated land area in most countries of Eastern Europe, besides Tajikistan, Turkmenistan and Uzbekistan (2013).
- (g) Dr. Shukhrat Mukhamedjanov (Uzbekistan) presented five reports during the Gwangju meeting (2014).

11. During discussion, members of the WG-IDSST proposed to continue the functioning of the WG-IDSST for the next term; 2016-2020 and ICID President supported the idea of continued functioning of the WG-IDSST and observed that it was very important and necessary for WG-IDSST to continue. During discussion, it was decided to reconsider WG mandate for the term 2016-2020 and present it during the next meeting of the WG at Chiang Mai in Thailand together with a 'Scoping Document'.

12. A draft closure report covering the technical output of the WG has been prepared and submitted to PCSO/ IEC). The meeting ended with thanks to the Chair.



**Minutes of the 22nd Meeting of the
ASIAN REGIONAL WORKING GROUP (ASRWG)
13 October 2015, 11.00-12.30 hours
Montpellier, France**

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) VPH Prof. Tai-Cheol Kim, Vice Chairman (Korea); (3) Mr. Sheng Feng Kuo (Chinese Taipei) represented by Dr. Gwo-Hsing Yu; (4) Dr. Mochammad Amron (Indonesia); (5) Mr. Naoki Hayashida (Japan); (6) Ir. Syed Abdul Hamid bin Syed Shuib (Malaysia) represented by Mat Hussin Ghani; (7) Dr. Aynur Fayrap (Turkey); and (8) Mr. Arthon Suttigarn (Thailand).

Observers: (i) Hamid Reza Khodabakhshi (Iran); (ii) Dr. Houshang Hasounizadeh (Iran); (iii) Mr. Ali Reza Salamat (Iran); (iv) Mostafa Zare Bahari (Iran) (v) Ir. Mohd Azmi Ismail (Malaysia); (vi) Mohamad Kazali Nazri (Malaysia); (vii) Mr. Ardavan Azari (Iran); (viii) Mohammad Zainal Fatah (Indonesia); (ix) Narges Zohrabi (Iran); (x) T. Shaldozi (Iran); (xi) Kwang Sik Yoon (Korea); (xii) Jin-Yong Choi (Korea); (xiii) Wang Aiguo (China); (xiv) Dr. Tsugihiko Watanabe (Japan)

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

ASRWG Minutes Item 1: Action taken report by Chair

1. The Chairman presented the action taken report. The most important action of ASRWG taken, among others was the contribution of ICID/ASRWG to the WWF7 on theme 2.1 “Water for Food”, thematic session 2.1.3 and thematic session on “Water-Food-Energy Nexus” (refer Item 3.1 of Agenda).

ASRWG Minutes Item 2: Membership of the Working Group

2. Central Office had received five nominations from the National Committees for the membership of the group:

- Dr. Mochammad Amron in place of Mr. Siswoko (Indonesia)
- Prof. (Ms) Kyung Sook Choi in place of VPH Prof. Tai Cheol Kim (Korea, Rep. of)
- Dr. Gwo- Hsing Yu in place of Dr. Sheng-Feng Kuo (Chinese Taipei)
- Mr. Stephen Mills in place of Dr. W.F. Vlotman (Australia)
- Mr. Jo’rayev Ilhom Usmonovich (Uzbekistan)

3. Chairman of WG and Central Office reviewed the CVs prior to the meeting. Accordingly, as Dr. Amron (Indonesia), Prof. Choi (Republic of Korea), Dr. Yu (Chinese Taipei), Mr. Mills (Australia) were present and their membership to ASRWG were accepted. The membership of Mr. Usmonovich from Uzbekistan was accepted as ‘Provisional Member’ for one year. Membership status is given in **Annex R6 (page 49)**.

4. WG requested Central Office to invite nominations from the National Committees of Bangladesh, Pakistan, Philippine, Saudi Arabia, Sri Lanka, Tajikistan, and Kazakhstan for the ASRWG membership.

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

ASRWG Minutes Item 3.1: 7th World Water Forum (WWF7)

5. Dr. Ota through a presentation appraised the WG on the contribution of ASRWG to WWF7. The Group noted that VPH Dr. Ota as Convener of the ICID Task Force on WWF7, with assistance from Japanese National Committee (JNC-ICID) had coordinated the activities of the TF very successfully. Dr. Ota also requested active participation of ASRWG to 8th World Water Forum (WWF8). The WG members appreciated all efforts and contributions of Dr. Ota for the event.

ASRWG Minutes Item 3.2: Regional cooperation between TUCID-IRNCID

6. The WG noted the cooperation and bilateral collaboration between IRNCID and TUCID who had signed a MoU in Mardin in 2013. Under this MoU, on the invitation of TUCID, an expert delegation from IRNCID had visited different parts of GAP project in Turkey. Similarly, a Turkish team from DSI visited the Irrigation Projects in Khuzestan Province in Iran on a reciprocal basis. During the WG meeting, the details of these visits were shared with the WG through a power point presentation made by Eng. Salamat. The Group noted that such mutual technical visits and exchanges were quite valuable and appreciated the mutual regional cooperation and urged members to explore if this kind of collaboration could be carried out between other countries at the sub-regional level as well. Meanwhile, the Korean National Committee (KCID) and Iranian National Committee (IRNCID) agreed to enter into similar bilateral collaborations.

ASRWG Minutes Item 3.3: Report on PAWEES International Conference 2014

7. The members of the WG were informed that PAWEES had organized an International Conference on “Sustainable Water and Environment Management in Monsoon Asia” last year in Taiwan where Prof. Kim, Vice Chairman of ASRWG, had presented a keynote speech. Prof. Kim appraised the Working Group about this International Conference and the requested to browse the website <<http://pawees.net/>> where one can access the output of this event.

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 (INWEPP)

8. WG discussed the collaboration between International Society of Paddy and Water Environment Engineering (PAWEES) and ASRWG after presentation of a brief report on background of this collaboration by Prof. Kim. Prof. Tsugihiko Watanabe, the President of PAWEES expressed agreement with the PAWEES-ASRWG collaboration in general, and promised to support the ASRWG actively by preparing detailed proposal for such collaboration.

ASRWG Minutes Item 5: Work Team on “Contribution of Agricultural Water to the Rural Development in Asia” – Internal workshop

9. VPH Prof. Kim made a presentation on the activities of ASRWG-Work Team on “Contribution of agricultural water to the rural development in Asia”. He briefly informed about the past internal workshops at Mardin (2013) and Gwangju (2014).

10. At Montpellier, CEO of Korea Rural Community Corporation (KRC) Mr. Sang Mu Lee presented a keynote speech on “Agricultural Water for the Development of Rural Society in Asia”, and Prof. Choi presented a paper on “Toward Smart Agricultural Water Management in Korea” in 3rd Internal Workshop of WT. Prof. Kim invited more contributions from the members to the ASRWG-WT. Since Prof. Kim desired to step down after Montpellier meetings, Prof Choi accepted the Chair of ASRWG-WT, which was agreed by the members.

ASRWG Minutes Item 6: Proposals for 8th Asian Regional Conference

11. The WG was informed that the Iranian National Committee (IRNCID) had informed the Central Office about their proposal for hosting the 8th Asian Regional Conference simultaneously with the 13th International Drainage Workshop in March 2017 in Khuzestan Province, Iran. The WG members welcomed the proposal for its onward submission to PCSO for their concurrence and recommendation to IEC. During the meeting, IRNCID displayed a short video about the Khuzestan Province where this Asian Regional Conference and the International Drainage Workshop would be held. *(PCSO/IEC however approved the organization of the 8th Asian Regional Conference at Kathmandu in Nepal in 2018, IEC Item 11)*

ASRWG Minutes Item 7: Publications of the Working Group

12. The final technical report of ASRWG-WT entitled “Contribution of Agricultural Water to the Rural Development in Asia” will be published in 2017 and will be distributed in WWF8. Prof. Choi, the new team leader of the WT will follow up this matter.

ASRWG Minutes Item 8: Any other business

13. Once again the WG members offered their thanks to VPH Prof. Kim for his untiring contributions and efforts to the ASRWG activities since 2006. The meeting ended with thanks to the chair.



**Minutes of the 26th Meeting of the
AFRICAN REGIONAL WORKING GROUP (AFRWG)
13 October 2015, 11.00-12.30 hours
Montpellier, France**

Year of Establishment: 1994

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

Members Present: (1) Dr. Sylvester Mpandeli, Chairman (South Africa); (2) VPH Dr. Samia El-Guindy (Egypt); (3) Tchouadang Kadjonga (Chad); (4) Abdel Hafid Debbarh (Morocco); (5) Ahmed Salifou (Niger); (6) ICID Central Office represented by Avinash C. Tyagi and Harish K. Varma.

Permanent Observers: (i) Mousa Amadou – ARID representative (Niger); (ii) Ndongo Sene – AGWA representative (Senegal).

Member Honorable Present: (1) President Dr. Saeed Nairizi (Iran); (2) VPH Felix B. Reinders (South Africa); (3) VPH Dr. Gerhard Backeberg (South Africa); (4) VPH Dr. Mohamed Hassan Amer (Egypt); (5) VPH Dr. Adama Sangare (Mali); (6) VP Dr. Mohamed Wahba (Egypt)

Observers: (i) Murtaza Dazhat (Nigeria); (ii) Mohammed G. Magaju (Nigeria); (iii) Kenneth Simililuwa Sunmonu (Nigeria); (iv) Sampson Agodzo (Ghana); (v) Engr. M.S. Bala (Nigeria); (vi) Engr. Peter Yakubu Manjuk (Nigeria); (vii) Mr. Ian W. Makin (UK); (viii) Engr. Abdullahi Abdulrahman Ogole (Nigeria); (ix) Ms. Adey Mersha (Ethiopia); (x) Bechir Aahazat Bechir (Chad); (xi) Engr. Abubakar, Sirika A (Nigeria); (xii) Kouyate Goundo Sissoko (Mali); (xiii) Abdou Lalat Diop (Senegal); (xiv) Ms. Mary Jean Gabriel (South Africa); (xv) Ouango D. Francois (Burkina Faso); (xvi) Dr. Dicko Mohamed (Mali); (xvii) Mrs. Karambiri Salamata (Burkina Faso); (xviii) Halido Abdoulaye (Niger); (xix) Assoremae I. Doka (Niger).

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

AFRWG Minutes Item 1: Action taken report by Chair

1. Dr. Sylvester Mpandeli, Chair of AFRWG welcomed all the participants and apprised members of the action taken on the decisions of the 25th meeting of the WG at Gwangju, Korea.

AFRWG Minutes Item 2: Review of membership of the group and countries

AFRWG Minutes Item 2.1: Membership of the group

2. The group recommended to accept Mrs. Salamata Karambiri MIWENDE (Burkina Faso) and Mr. Tchouadang Kadjonga (Chad) as member while Mr. Mulako Cornelius Sitali (Zambia) as Provisional Member. In order to be a member of the working group, each national committee is required to nominate a person and send the CV of that respective person to ICID. WG deliberated on the membership issue and requested national committees to pay their annual subscription timely and also encourage other national committees in their regional blocks to join ICID. Membership status is given in **Annex 6 (page 49)**.

AFRWG Minutes Item 2.2: Membership of African countries

3. WG deliberated on efforts made by the regional member countries to encourage non-member regional African countries to become member of ICID and the WG. VPH Dr Backeberg highlighted that Southern African Regional Irrigation Association (SARIA) has 6 countries who have paid their membership subscription to ICID while 9 countries are still to become members and pay their membership subscription to the ICID. The Chair of AFRWG mentioned that we should encourage the remaining 9 countries also to become member of ICID and pay their membership subscription to the ICID. It was mentioned that Uganda is in the process of joining ICID as Member.

4. Member from Egypt informed WG that they are trying to facilitate a meeting of the member countries of the North African region but are facing lot of challenges in organising such meeting. He further informed that they would like to undertake the process of developing a Memorandum of Understanding (MoU) with all the North African countries and hold elections to decide on the chairmanship and location of the office. The chairman of AFRWG Dr Sylvester Mpandeli emphasized that the regional nodes must make a concerted effort to request countries in their

region to join ICID. WG Chair also noted that number of member countries have not nominated their representative in the WG and requested such members to nominate their representatives and send their CV for record.

AFRWG Minutes Item 3: Progress on implementation of the action program for Africa

AFRWG Minutes Item 3.1: Developments in Irrigation and allied issues

5. SARIA held a meeting in Pretoria in February and the theme of the Workshop was “Rainwater harvesting and conservation on crops lands”. The next SARIA meeting will be held in Malawi in February 2016 and the theme of the workshop is “Rural Freshwater Aquaculture”. The chairperson thanked ICID for the financial support which was provided to SARIA during the 2015 SARIA workshop and the Steering Committee Meeting in Pretoria, South Africa.

AFRWG Minutes Item 3.2: Strategy for capacity building in Africa

6. WG Chair informed members that the draft strategy has been developed after incorporating comments received from SARIA and ARID while comments received from Egypt recently will also be incorporated in the draft strategy which is available on ICID web site. During discussions, it was agreed by all participants that the strategy document for capacity building in Africa is a living document and suggested its review every three years. Participants adopted the strategy for capacity building in Africa and also agreed in principles that this strategy be approved. WG Chair requested members of the AFRWG to send their comments on the draft strategy within one month so as to collate all the information and finalize the document. Participants agreed that the strategy document for capacity building in Africa will then be presented at the 4th African Regional Conference on Irrigation and Drainage (ARCID) in Egypt in April 2016 for adoption as an approved document.

7. The ICID Secretary General informed that funds are available to support short training courses. WG after deliberation recommended to organize first such training course in Egypt in April 2016 back to back with the African Regional Conference keeping in view the facilities available for training on on-farm and drainage in Egypt. WG Chair agreed to identify participants for first training in Egypt in 2016 in consultation with members.

AFRWG Minutes Item 4: Publicizing working group’s activities through a Newsletter and other International publications

8. It was recommended that each member country must provide information on their activities to either the chairperson or the ICID Central Office so that same can be published in the ICID newsletter. SARIA was commended on their activities and the information which they have provided.

AFRWG Minutes Item 5: Exchange of information (video/audio conferencing)

9. Members were informed about the facility for video or audio conferencing provided by ICID Central Office. Members were encouraged to contact WG Chair for organizing such virtual meeting which would be facilitated by ICID Central Office. In order to ensure wider participation of members in virtual meetings ICID President suggested members to make use of social media also.

AFRWG Minutes Item 6: Outcome of SARIA Workshop, March 2015, Pretoria

10. WG Chair apprised members of the activities of the SARIA including outcome of SARIA workshop on “Rainwater harvesting and conservation on crops lands” in March 2015 at Pretoria, South Africa. Members commended activities of SARIA. For more information, please access the ICID News Update <http://www.icid.org/nup2015_4.pdf>.

AFRWG Minutes Item 7: African Regional Conference

11. The Egyptian National Committee (ENCID) apprised members of the status of activities and informed that the second announcement for the 4th African Regional Conference on Irrigation and Drainage (ARCID) to be held in Aswan City, Egypt on 26-28 April 2016 has been issued. The main theme of the conference is “Agricultural land and water management for sustainability under climate variability”. The topics are as follows:

1. Water Use Management

- (a) New technologies in agriculture, irrigation and drainage on –farm practices.
- (b) On-farm issues related to use of non-conventional water resources.
- (c) On-farm water storages under climate variability.
- (d) Drip irrigation for small farms.

2. Food security

- (a) Improving on-farm agricultural water productivity.
- (b) On-farm environmental challenges under food and water scarcity coupled with energy.
- (c) Role of women in farming
- (d) Water ethics relevant to farm management.

3. Research, extension services and capacity development

- (a) Taking water management research to the farm, bridging the last mile.
- (b) Role of extension services: making agriculture water and climate information available at farm level.
- (c) Challenges and constraints facing extension services in Africa.
- (d) Training and capacity building for improvement of on-farm water management in Africa.

12. The Chairman of the Organizing Committee indicated that only 22 abstracts have been received so far, of which only 3 are from Africa. In order to ensure larger participation from member countries and based on suggestion of the members ENCID agreed to extend time for submission of abstracts to end of November 2015. WG Chair, Dr. Mpandeli requested all the member National Committees to encourage their members to submit at least a minimum three abstracts. The Organizers indicated their willingness to pay for all invited keynote speakers.

AFRWG Minutes Item 8: Website of the working group

13. Members were encouraged to submit the profile/ summary of their activities on the website and National Committees were requested to upload such information on their web site. The Chairman of the AFRWG, Dr Sylvester Mpandeli requested all the National Committees to provide information on any activities related to irrigation and drainage in their respective countries for uploading on WG website. Morocco agreed to send information/document for uploading on WG website by the end of October 2015.

AFRWG Minutes Item 9: Any other business

14. Since some of the participants from Francophone countries are unable to fully participate in the meeting discussions which are mainly in English so the group recommended that in future meetings, there should be provision of simultaneous French translation and the organizers of the future events may be requested to support the same. WG chair stressed need for open discussions on the venue of hosting of the 5th African Regional Conference. He informed that Mali and South Africa both have hosted this meeting once and Egypt will be hosting this conference for the second time in 2016. Members were of the view that 5th African Regional Conference can be held either in Tanzania or Nigeria.



**Minutes of the 21st Meeting of the
WORKING GROUP ON YOUNG IRRIGATION PROFESSIONALS FORUM (WG-YPF)
14 October 2015, 14.00-15.30 hours
Montpellier, France**

Year of Establishment: 1993

Mandate : (1) To provide an international platform for young irrigation and drainage professionals and to encourage and promote a high standard of professional development in the subjects of irrigation, drainage and environment, (2) To facilitate the development, acquisition and wider dissemination of knowledge and information about irrigation, drainage, flood management and environment amongst the young professionals, (3) To maintain and enhance links with national and international youth having interests in the related subjects or the activities relevant to ICID objectives, and (4) To educate young professionals about ICID's role, objectives, activities, structure, constitution and By-laws.

Members Present: (1) Ms. Hayati binti Zainal (Malaysia), (2) Dr. Atsushi Marui (Japan).

Member Honorable Present: (1) President Hon. Dr. Gao Zhanyi (China); (2) Vice President Dr. Huseyin Gundogdu (Turkey); (3) Mr. Avinash C. Tyagi (Secretary General, ICID)

Observers : (1) Mr. Issam Khaddam (Syria), (2) Mr. Christian June C. Maquiling (Philippines), (3) Ms. Adey Nigatu Mersha (Ethiopia), (4) Ms. Yingduo Yu (China), (5) Mr. Chansung Oh (Korea), (6) Mr. Paul Ayella (Uganda), (7) Mr. Rafael Gonzales Perea (Spain), (8) Ms Gong Ju (Korea), (9) Mr. Htay Aung Tint (Myanmar), (10) Mr. Mohamad Razali Nazari (Malaysia), (11) Ms. Eman Ragab Nofal (Egypt), (12) Ms. Hind Massoud Hamed Elneel (Sudan), (13) Mr. Pin Han Kuo (Taiwan), (14) Mr. Abdullahi Abdul Rahman Ogole (Nigeria), (15) Mr. Mohammad Shoaib Saboory (Afghanistan), (16) Dr. Mortaza Yazdkhasti (Iran).

(Ms. Hayati binti Zainal (Malaysia) Chaired the meeting in absence of Mr. Yaser Barghi (Iran), Chair, WG-YPF)

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

1. Ms. Hayati binti Zainal (Malaysia), Secretary of the WG presented the report on the follow up actions on the various decisions / proposals of the working group at its last meeting held at Gwangju, Korea (2014).

WG-YPF Minutes Item 2: Review of the membership of the working group

2. As the WG was having its concluding meeting, new membership proposals were not considered.

WG-YPF Minutes Item 3: Review of the progress made by the National Committees in establishing Young Professionals Forum (YPF)

3. It was reported that the seven National Committees have their YPF directories. It was recommended that these directories could form the basis for starting the new ICID-YPF. It is proposed to invite all attendee YPs (Observers) to join the new ICID-YPF.

WG-YPF Minutes Item 4: Scholarship to young professionals for attending ICID events – 26th European Regional Conference, October 2015, Montpellier

4. In 2015, fourteen young professionals from National Committees (NCs) and partner International Organizations (IOs) have been awarded full scholarship. Two half-day training workshops were organized for them besides taking responsibilities as rapporteurs in various sessions of the Conference and attending ICID Working Group meetings of their choice. The two half-day training workshops organized were:

- **Training Workshop – 1:** “Coupling innovative methods for participatory water management” by Nils Ferrand, IRSTEA on 15 October 2015; 09:00 – 12:30 hours
- **Training Workshop – 2:** “Integrated Flood Management: from theory to practice” by Mr. Giacomo Teruggi, WMO on 15 October 2015; 14:00 - 17:30 hours

5. President Dr Saeed Nairizi inaugurated the Training Workshops and expressed hope that the YPs would take full advantage of the opportunities provided. He thanked IRSTEA and WMO to partner in ICID's efforts to enthuse YPs to participate in professional activities.

6. The proposal of Ms. Hayati, Secretary of the YPF to organize training workshops in future on topics such as: climate smart agriculture, water footprints or issues related to sustainable irrigated agriculture were noted and it was assured by Secretary General (SG) Avinash C Tyagi that while organizing such trainings in future, the proposals from YPF will be considered and efforts made to meet the expectations of YPs. He encouraged YPs to give more suggestions.

WG-YPF Minutes Item 5: Young Professionals photo exhibition at Montpellier in 2015

7. Chair Yaser Barghi (Iran) in cooperation with Ms. Caroline Coulon (France) had proposed to organize a photo exhibition (in line with the theme of the conference) as a side event during Montpellier meetings. However, due to some reasons the exhibition could not be materialized. SG took note of the suggestion and assured that YPs would be given the responsibilities to organize a similar event at Chiang Mai in 2016.

WG-YPF Minutes Item 6: Closure report of the WG-YPF

8. The achievements of the WG were highlighted in a summary report of the activities of the WG for the period 1993-2015. The Chair appreciated the efforts of Central Office in preparing the summary report of activities, especially from 1993.

9. Speaking at the meeting, PH Dr Gao Zhanyi pointed out that he was first initiated into the activities of ICID through WG-YPF. He had served as the Chair of the WG for three years and also benefitted from the WatSave Award for the YPs. He said that many other Office Bearers of ICID have worked their way upward through WG-YPF. He therefore, encouraged the YP participants to make best use of the opportunity provided by ICID to interact with senior professionals.

WG-YPF Minutes Item 7: Guidelines/format for the new ICID-YPF

10. At the 65th International Executive Council (IEC) held at Gwangju in September 2014, the Council approved establishing an ICID-Young Professional's Forum (ICID-YPF) with open membership. SG presented the concept note on ICID-YPF enumerating benefits to YPs, role of YPs and the mechanism for the management of the Forum. He pointed out that the enclosed **Annex** proposes the rules in order to assist the organization of Young Professionals Forum. Keeping the above in view, ICID-YPF would be a platform for all young professionals to come together and share knowledge and experiences. It is recognized that under the increasing complexities of supply, demand and uncertainties, a breed of professionals who approach the irrigation and drainage issues with a more open mind and accept the multi-dimensional aspects of the water sector is required. They should be willing to undertake their activities in an inter-disciplinary manner.

11. SG pointed out that keeping the long-term objectives of ensuring water and food security in view, ICID has established **ICID Young Professional's Forum (ICID-YPF)** that provides an international platform to young engineers/scientists for their professional development. The Forum would provide an opportunity to young professionals to engage, network and share their experiences and also learn from the experiences of senior engineers (Mentors) in the field.

12. The Group appreciated the efforts made by SG and felt that the rules were quiet acceptable. There was a feeling that efforts should be made to try the new way of working and make suitable modifications as we go along.

WG-YPF Minutes Item 8: Any other business

13. *WebEx meeting:* The WG-YPF organized its very first WebEx (Online) meeting on 29 September 2015 which was very useful in narrowing the issues for discussion during the main meeting at Montpellier. Chair Yaser Barghi (Iran) inputs proved valuable since he could not attend Montpellier meetings. The YPs intend to organize more such online meeting in 2016.



Annex [Appendix VI, Item 7]

**ICID – YOUNG PROFESSIONAL'S FORUM
CONCEPT NOTE****Background**

At the 65th International Executive Council (IEC) held at Gwangju in September 2014, the Council approved establishing an ICID-Young Professional's Forum (ICID-YPF) with open membership. The Council suggested that ICID Central Office develop rules and assist the organization of Young Professionals Forum. This note is prepared to lay down the concept and working rules for this Forum. It is expected that the establishment of this Forum may, in the course of its development require adjustment of some of the by-laws, which will be presented separately after the conceptual and administrative framework is agreed to.

The Context

Increasing food production through sustainable use of water will, among others, require large investments in infrastructures, research and development, that are compatible with the preservation of ecosystems and can adapt to climate change. The sector will need to increase its water use efficiency by reducing water losses and, most importantly, increase crop productivity with respect to water.

The Asia and Pacific region has seen development of large irrigation infrastructure in the last fifty years which has helped in creating food security and fueled growth. However, these systems are beset with the low efficiencies. The old public irrigation department in these countries are saddled with old and ill-maintained large irrigation systems and aging staff. The in-service professionals need to be brought to pace with the rapid technological developments. Given the complexity of development process, irrigation and drainage professionals need exposure to the social, environmental and other disciplines that influence the agriculture water management. There is need for greater sharing of experiences and tools particularly related to social, economic and environmental aspects.

Given the fast changing development scenario and the exponential growth in technology, coping with these fast changes is a tough proposition. In addition to learning from past experiences, what definitely is required under the increasing complexities of supply, demand and uncertainties, is a breed of professionals that approach the irrigation and drainage issues with a more open mind and accepts the multi-dimensional aspects of the water sector and are willing to undertake their activities with an inter-disciplinary approach? However, the number of young professionals joining the water sector is dwindling by the year.

Objective of ICID-YPF

Despite the challenging development scenarios the sector is suffering from a lack of interest from the young professionals as they find the career in the sector uninteresting with little growth potential. This lack of interest in the sector among the new generation has resulted in the closure of irrigation and drainage departments in academic institutions around the world. The generation X has to be attracted to the sector by making the careers in irrigation and drainage sector more interesting and challenging. Information has to reach them at their finger press, which they are used to in the era of social media.

With these long-term objectives in view, ICID has established **ICID Young Professional's Forum (ICID-YPF)** that provides an international platform to young engineers/scientists for their professional development in the areas of irrigation, drainage, flood management and environment. The Forum provides an opportunity to young professionals to engage, network and share their experiences and also learn from the experiences of senior engineers (Mentors) in the field. The main objectives of establishing the Forum are to:

- (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,
- (e) Maintain and enhance links with national and international youth having interests in water related subjects or the activities, relevant to ICID objectives.

Membership

Person desirous of becoming member of ICID-YPF will have to fulfill following eligibility criteria:

- (a) Person should be any professional below the age of 40 years,
- (b) working or pursuing studies in the areas of agriculture water management and/or flood management disciplines,
- (c) The membership will have to be endorsed by their organization where working/ academic institute where pursuing higher studies/an ICID National Committee/ an International ICID Partner Institution/ a direct institutional members of ICID/.

The Forum will essentially be an e-forum with most of its activities being met through remote. Members would have the opportunity to interact with each other through a Linked-in platform moderated by experts. The network will be different from other such platforms as the active members of the Forum would have the opportunity to interact face to face with each other at the time of the ICID events.

The activities of the Forum will be monitored and overseen by a group of volunteer young professionals – one coordinator and five joint coordinators - that will link the Forum with ICID network.

Professional Advantages

The members of the Forum will be able to:

- (a) **Interact** with likeminded young professionals, researchers, and practitioners involved at international level and share resources;
- (b) **Develop relations** for peer to peer learning from around the world and enhance self-potential;
- (c) **Bridge the knowledge gap** between theory and practice by attending the global meetings of ICID and listening to senior professionals;
- (d) **Stay informed** on the latest knowledge in the area of irrigation and drainage through ICID publications: ICID News, News Update and e-bulletin, all available on-line;
- (e) **Benefit** from the latest scientific knowledge available through ICID Journal on Irrigation and Drainage.
- (f) **Access** the resources available in the Integrated Library Management System (ILMS)
- (g) Keep up-to-date on best practices and trends in the field;
- (h) **Advance** professional skills by way of participating in ICID training workshops;
- (i) **Better appreciate** different viewpoints, approaches and cultures from around the world; and
- (j) **Enhance** ability to plan careers in the irrigation sector.

Benefits for Young Professionals

- (a) Membership of two WGs of choice subject to their active participation;
- (b) Liberal concession in registration fee (about 50%) in World Irrigation Forum and ICID's Congress, conferences and events;
- (c) Eligible for WatSave Awards: one category (out of four categories) of awards, exclusively dedicated to Young Professionals (YPs);
- (d) Free on-line subscription of the ICID Journal on Irrigation and Drainage to fifty YPs subject to their active participation;
- (e) Eligible for ICID scholarship for participation in ICID events;
- (f) Participate in Sessions/ Roundtable discussions especially organized for young professionals;
- (g) Discounted pricing on educational programs - online learning, webinars, and conferences.

Broad Rules and Regulation

Broad conditions/rules and regulation for ICID-YPF will be as follows:

- (a) Professional willing to become member of ICID-YPF will have to apply in the prescribed form with ID and age proof.
- (b) Professional will undertake to follow the core values of ICID and work towards fulfilling its vision.
- (c) ICID Central Office staff will review application and approve membership and support the experts in moderating the forum and various other activities
- (d) The Forum members will chose a coordinator and five joint-coordinators to manage affair of YPF.
- (e) ICID CO will facilitate election of coordinator and joint coordinators. ICID will identify three most active members, out of which one will be elected as coordinator by YPF members through online poll organized by ICID. For joint coordinators 10 active members will be identified out of which 5 will be elected as joint coordinators. YPF members may review this process and may evolve better process of electing coordinator and joint coordinators.
- (f) Terms of coordinator and joint coordinators will be maximum for a period of 3 years. After three years one of the joint coordinators can be elected as coordinator to ensure continuity.
- (g) ICID will support participation of coordinator under YP scholarship to ICID annual event to brief about activities of the YPF to permanent committees etc.
- (h) Member of forum will be allowed to get online certificate as YPF member after 5 years of active participation in the Forum (or on attaining age of 40).



**Minutes of the 21st Meeting of the
EUROPEAN REGIONAL WORKING GROUP (ERWG)
14 October 2015, 17:30-19:00 hours
Montpellier, France**

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) VPH Dr. Laszlo Hayde (Hungary), Chairman; (2) Mr. Olli-Matti Verta (Finland), Secretary; (3) Dr. Marco Arcieri (Italy); (4) Mr. Mati Tonismae (Estonia); (4) Ms. Sabine Seidel (Germany), Young Professional; (5); Mr. Ian Makin (UK); (6) Dr. Sami Bourfa (France); (7) Dr. (Mrs) Irena G. Bondarik (Russia); and (8) Dr. Vijay K. Labsetwar, Director, ICID CO represented Secretary General, ICID.

Member Honourable Present: PH Peter S. Lee (UK).

Observers: (i) Mr. Hannes Puu (Estonia); (ii) Ir. Seija Virtanen (Finland); (iii) Mr. Harri Koivusalo (Finland); (iv) Ir. D. Berlizov (Russia); (v) Ir. Luciano Mateos (Spain); (vi); Ir. Mika Turunen (Finland); (vii) Ir. Vincent Bernard (France); and (viii) Ms. Helena Aijo (Finland).

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

ERWG Minutes Item 1: Action Taken Report by Chair

1. The Chairman presented a report regarding actions taken on the decisions made during the last meeting of the group at Gwangju (2014), South Korea. The WG had a WebEx meeting as discussed under Agenda Item 3 and made preparations to celebrate the 20th anniversary of the ERWG at Montpellier, France in October 2015.

ERWG Minutes Item 2: Review of the membership of the Working Group

2. The members noted the activities and achievements of the ERWG, including composition of various Work Teams (WTs), together with associations with European Professional organizations as given in *Annex 2* of agenda of the Group (Page No. 84-85).

3. WG reviewed membership status of the Regional Working Group (RWG) and noted that Germany has confirmed their inability to reactivate its membership of ICID and response of Austrian National Committee of ICID (AUNCID) on membership subscription is still awaited. The Chairman of the WG informed the members that in the latest development, VPH Peter Kovalenko (Ukraine), President of UACID informed UACID willingness to reactivate its membership and remitted the part payments of membership subscription of 2011, 2012, 2013 and 2014, respectively. During 66th IEC meetings, PCSO and IEC approved reactivation of membership of Ukraine NC from September 2015. In view of above, the WG decided continuation of VPH Prof. Kovalenko as Vice Chairman of ERWG.

4. The Italian National Committee (ITAL-ICID) nominated Mr. Marco Arcieri (who is also the Secretary General of ITAL-ICID), as member of the European Regional Working Group who introduced himself in the WG meeting. Mati Tonismae (Estonia) informed the group about the changes in the Estonian National Committee of ICID. He informed that the new Chairman of the Estonian National Committee is Mr. Hannes Puu, who is also nominated as new member of the WG from Estonia. The WG approved membership of Mr. Marco Arcieri (Italy) and Mr. Hannes Puu (Estonia).

5. Mr. Luciano Mateos (Spain) was present in the meeting as an observer and conveyed his willingness to try to facilitate the reorganization of the Spanish National Committee of ICID (CERYD) and return to ERWG with nomination of a Spanish member. Due to absence of Mr. Johannes Deelstra (Norway) or any other representative from Norway, latest status of Norway becoming member of ICID could not be discussed. The membership status of the ERWG is at **Annex 6 (page 49)**.

6. The Chairman discussed the issue of withdrawal of membership of the ERWG by few National Committees (NCs), including some founding member countries and recommended PCSO/IEC to consider setting up of a Task Force (TF) to study the reasons responsible for the gradual withdrawals of NCs from Europe from the membership

of ICID and other issues faced by these NCs. IEC vide Resolution IEC-3/66 approved setting up of such task force.

7. VPH Dr. Laszlo Hayde (Hungary), the Chairman of the ERWG since 2010, stepped down from the chairmanship of the group and WG unanimously selected Mr. Ian Makin (UK) as its new Chairman. The WG thanked Dr. Hayde for his excellent support and very useful input provided to the various activities of the group during his tenure. The members of the group requested him to continue to provide guidance to the activities of the ERWG and share his expertise and valuable experience with the Group, which he gladly accepted.

ERWG Minutes Item 3: WebEx meeting of the group

8. The Chairman of the WG apprised members that the Group successfully organized its first virtual meeting through WebEx on 30 January 2015 facilitated by the Central Office. WG appreciated the efforts of CO and agreed to continue with virtual meetings in future also.

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

9. The Chairman stressed the need for more frequent interaction to strengthen linkages among ERWG Water Networks, which includes 7 National Water Management Associations, 5 European professional organizations, and 5 European Water Management Institute (refer Annex 2 of the Agenda). The Chairman invited members to send their feedback on the interaction or cooperation, if any to Central Office.

ERWG Minutes Item 5: Dialogue on Water for Food and Environment

10. The Chairman informed that the cooperation among ICID-ERWG, Central and Eastern Europe Global Water Partnership (CEE-GWP) and World Wide Fund of Nature (WWF) is continuing—and they are being invited for conferences organized by ICID and vice versa. These organisations have been invited to 26th ERC held at Montpellier along with 66th IEC meetings in October 2015. The Chairman requested members to make efforts to further strengthen cooperation with these organisations.

ERWG Minutes Item 6: Activities of Focus Groups of ERWG

11. The members of the Group discussed the functioning of Focus Groups setup under ERWG to raise the issues related to European viewpoint in the respective work bodies of ICID and revert back to ERWG on the relevant issues. The Chairman informed that some of the above mentioned thematic working groups do not exist anymore, so members agreed to review and investigate the functioning and continuation of these Focus Groups in the next meeting in 2016. Following two presentation were made by members while discussing activities of these focus groups:

- Mr. Bernard Vincent, Chairman of WG-SDG presented at the meeting on the recent works and achievements of working group on drainage and possible links between the thematic working group and the regional WG.
- Mr. Mati Tonismae (Estonia) made a presentation on the regional co-operation and workshops by Baltic countries, Russia and Finland.

ERWG Minutes Item 7: 20 Years of ERWG - 26th European Regional Conference (ERC)

12. ICID's 26th European Regional Conference (ERC) on the theme 'Innovate to Improve Irrigation Performance' and three sub-themes : (a) Innovations for smallholders in irrigation; (b) Wastewater use in agriculture; and (c) Governance of surface water and groundwater were successfully organized by host French National Committee of ICID (AFEID) during 11-16 October 2015 at Montpellier, France. The Conference was attended by 800 participants from 65 countries and more than 300 papers were presented. Three Keynote Speakers also made their address during the Opening Ceremony of the conference. Detailed information of the conference presentations, papers/posters etc, is available at <http://icid2015.sciencesconf.org/?lang=en>

13. European Regional Working Group (ERWG) celebrated its 20th Anniversary during the meeting. The Chairman gave a presentation about the 20 years history of the working group highlighting background of establishment of ERWG, its mission, activities, projects, publications and other work results. The WG celebrated the 20th anniversary with refreshments, thanks to the chairman and the Russian National Committee of ICID

ERWG Minutes Item 8: ERWG website to showcase activities of the group

14. In order to update website of ERWG (<http://www.icid.org/erwg.html>) by ICID Central Office, the Chairman requested members to provide additional material/publications/papers/links for its posting on the group's website. WG decided to upload presentations given in Montpellier meeting on the web site of the WG. Dr. Hayde informed that he has collected important historical documents, publications and pictures from the history of ERWG, thanks to VPH Prof. Istvan Ijjas founder and former Secretary of ERWG, Prof. Joachim Quast former editor of the ERWG Letter and ICID Central Office. Members suggested uploading all collected historical documents and a picture archive on the ERWG website.

ERWG Minutes Item 9: Publications of the ERWG

15. Members of the Group were requested to share any open source publications/papers/links relevant to the WG activities for uploading on WG website for enriching it further and sharing with all the members of ERWG and exchange the experiences with the members of other regions.

ERWG Minutes Item 10: Three-Year Rolling Work Plan

16. Due to paucity of time issue of developing rolling work plan could not be discussed and members agreed to evolve a 3-year rolling work plan in the next meeting. The work plan will include activities such as workshops, publications etc., with time frame and responsibility allocation.

ERWG Minutes Item 11: Any other business

17. Members noted and commended the activities of fellow National Committees from Russia, Spain and Estonia.



**Minutes of the 22nd Meeting of the
ICID JOURNAL EDITORIAL BOARD (EB-JOUR)
13 October 2015, 09.30-10.30 hours
Montpellier, France**

Strategy Theme: Knowledge

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) Mr. Bernard Vincent (France), Associate Editor; (3) Prof. Daniele de Wrachien (Italy), Associate Editor represented by Prof. Graziano Ghinassi; (4) Dr. Takao Masumoto (Japan), Associate Editor; (5) Prof. Leon van Rensburg (South Africa), Associate Editor; (6) Prof. Waldo Ojeda-Bustamante (Mexico), Associate Editor; (7) VPH Larry D. Stephens (USA); (8) Dr. Yohei Sato (Japan); (9) Dr. Mohammad Javad Monem (Iran); (10) Dr. Li Jiusheng (China); (11) Dr. Henk Ritzema (The Netherlands); (12) Prof. Dr. Joong Dae Choi (Korea); and (13) Dr. Vijay K. Labhsetwar, Director, ICID Central Office.

Nominated Members: (i) VPH Laszlo Hayde (Hungary); and (ii) Prof. Prof. Graziano Ghinassi (Italy).

Observers: (i) Ir. Juan Manuel Gonzalez-Camacho (Mexico); and (ii) Dr. Dominique ROLLIN (France).

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

EB-JOUR Minutes Item 1: Action Taken Report by Chair (from Editor, Chairman etc.)

1. The report of the Chairman for 2014 has been disseminated to the members of EB-JOUR before the meeting. Various points emerging from the report have been presented at the beginning of the meeting and were discussed during the meeting.

EB-JOUR Minutes Item 1: Special issues

2. At present four Special Issues may be expected in 2015-16, they being:

- (a) Special Issue in the regular series with selected papers of the Gwangju (Korea) Congress (2014). It will most probably be published as Issue 5 of 2015;
- (b) Sponsored Special Issue with selected papers, in principle based on Gwangju Congress papers by authors from Asia. It is expected that this issue can be published in addition to the first issue of 2016;
- (c) Sponsored Special Issue with selected papers in principle based on Gwangju Congress papers by Korean Specialists. It is expected that this issue can be published in addition to the second or third issue of 2016;
- (d) Sponsored Special Issue on New Developments on Irrigation in Africa. Also this issue can be published in addition to the second or third issue of 2016;

The Chairman appreciated the efforts of all members and sponsors towards bringing out these sponsored Special Issues. In addition, five other sponsored special issues may be proposed for 2016-17, they being:

- (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 and 2015. The Special Issue is expected to be published in 2016;
- (b) A Special Issue to be organised by Prof. Lucio Ubertini (Italy) with selected papers of a recent conference in Italy. The Special Issue is expected to be published in 2016;
- (c) The French National Committee (AFEID) will take care of the sponsored Special Issue with selected papers of the European Regional European Conference in Montpellier (2015). The Special Issue is expected to be published in 2016;
- (d) Sponsored Special Issue by the Iranian National Committee (IRNCID) that will be based on selected papers of the 13th International Drainage Workshop, Iran in 2017;
- (e) A sponsored Special Issue by the Mexican National Committee, based on selected papers of the special session during the ICID Congress in Mexico. The Special Issue is expected to be published in 2017/2018.

EB-JOUR Minutes Item 2: French resurés

3. For all submitted papers, Bernard Vincent (France) has checked the French Titles and Resumes. Members expressed their thanks and gratitudes to Bernard Vincent for his time and efforts.

EB-JOUR Minutes Item 3: Recognition to the reviewers

4. The Guest Editors and Reviewers of papers in 2015 will be listed and recognized in the first issue of the Journal in 2016. It has been agreed to issue a certificate stating the work of the reviewers for *Irrigation and Drainage*, upon request.

EB-JOUR Minutes Item 4: Best Paper Award 2015

5. The winner of the 'Best Paper Award 2015' was announced during the first part of the IEC meeting on 12 October 2015. The winners are: Willem F. Vlotman and Clarke Ballard from Australia for their paper titled "Water, Food and Energy Supply Chains for a Green Economy". The paper was published in Vol. 63, Issue 2 in 2014. The Best Paper Award is 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: Review of the membership of the Working Group**EB-JOUR Minutes Item 2.1: New membership**

6. New nominations of Prof. Graziano Ghinassi (Italy) and Dr. Laszlo Hayde (Hungary) were received from National Committees of ITAL-ICID and HUCID, respectively. The EB-JOUR proposes their membership for the EB-JOUR as Associate Editors. During the meeting, Dr. Henk Ritzema (The Netherlands), who is already a member of the Editorial Board, expressed his desire to become Associate Editor. While we need to expand the number of Associate Editors in the EB-JOUR, the meeting proposed that Dr. Ritzema be accepted as Associate Editor. During the meeting it was announced by the representative of Iran that we can expect the nomination of Dr. Poolad Karimi (Iran) as Associate Editor. The nomination will be appreciated and can be formalized in the next meeting

EB-JOUR Minutes Item 2.2: Joint Editors

7. The Board was informed that VPH Prof. Hector Malano (Australia) has expressed his desire to step down from the position of Joint Editor from the EB-JOUR. The Board recognised the enormous amount of good work that Prof. Malano has done for the Journal over the years and thanked him for his dedicated services to the Journal. After consultation with the Joint Editors and M/s. Wiley, the Chairman has contacted the Associate Editor Prof. Jiusheng Li (China) for his willingness to become the Joint Editor. Prof. Jiusheng Li has since confirmed to become the Joint Editor of the journal. EB-JOUR thus proposed to accept Prof. Jiusheng Li as the Joint Editor with effect from January 2016.

EB-JOUR Minutes Item 2.3: Editor Emeritus

8. At present, the former Joint Editor Paul van Hofwegen (The Netherlands) is the Editor Emeritus. The Chairman contacted him with the request to conclude his tenure (2008-2015). Paul van Hofwegen has since agreed with the proposal. While Prof. Hector Malano will step down as Joint Editor, the Chairman proposes Prof. Malano to be the new Editor Emeritus. The EB-JOUR accepted this proposal.

EB-JOUR Minutes Item 3: Experiences with reviewers

9. The Chairman and members shared their experiences in reviewing the papers of the Journal.

EB-JOUR Minutes Item 4: Distribution of the Journal among the ICID membership

10. The members noted the information provided regarding the subscription to the Journal by the various NCs. The Board noted that the number of subscriptions for the year 2015 are **416** (revised) online only, **156** online + print and **126** 'print' only, which makes the overall total as **698** (revised). Members noted that not all the 800 copies under the Agreement are currently subscribed, and discussed the repercussion of moving on to 100 per cent on-line access of the Journal in view of the recent experiences/complaints from some NCs. As one of the measures to improve this situation the young professionals that were invited for the Montpellier meetings will also get a free online subscription to the Journal for two years.

EB-JOUR Minutes Item 5: Issues related to M/s Wiley-Blackwell

11. Noted by members.



**Minutes of the Informal Meeting of the
WORKING GROUP ON IRRIGATION DEVELOPMENT AND MANAGEMENT (WG-IDM)
13 October 2015, 09.00-10.30 hours
Montpellier, France**

Strategy Theme: Schemes

Members Present: (1) Masao Miyazaki (Japan); (2) Dr. Katsuyuki Shimizu (Japan); (3) Mr. Ian Makin (UK); (4) Ms. Mary Jean Gabriel (South Africa); (5) Muklis Zainol Abidin (Malaysia); (6) Dr. Kazumi Yamaoka (Japan); (7) Ir. Mat Hussin Ghani (Malaysia); (8) VP Francois Brelle (France); (9) Cheng, Chang-Chi (Taiwan); (10) Jan, Ming-Young (Taiwan); (11) Mohamad Razali Nazri (Malaysia); (12) Mohd Anuar Musardar Yusoff (Malaysia); (13) Mohd Azmi Ismail (Malaysia); (14) Dr. Ruey-Chy Kao (Taiwan); (15) Dr. Waleed Hassan (Egypt); (16) VPH Dr. Hafied Gany (Indonesia); and (17) ICID Central Office represented by Harish K. Varma.

A. Introduction of the new Working Group

1. Chair of the Core Group Vice President François Brelle presented the updated Scoping Document during the meeting. Participants felt that the scope of the WG is very broad and focus should be made on specific issues relevant to the subject of WG and made following suggestion:

- (a) Focus on least developing countries and south-south cooperation,
- (b) Assess the potentials for development of irrigation, through intensification in existing schemes or increasing irrigated areas,
- (c) Identify the drivers for improving irrigation management,
- (d) Due weightage of social issues need to be considered along with technical and institutional ones

2. Participants also felt that some issues proposed in scoping document are too sharp to be fully relevant within the scope of this WG and may fit well within the scope of other WGs, such as:

- (a) assessment of evaporation and evapotranspiration (-> WG-Crop);
- (b) re-use of treated waste water (-> WG PQW);
- (c) groundwater management (WG to be dedicated to Groundwater?);
- (d) artificial recharge of aquifers (IDM).

3. After deliberation participants recommended establishment of new WG with the following mandate/scope:

- (a) water resource governance and integrated water resource management;
- (b) assessment of irrigation development potentials;
- (c) assessment of water demand;
- (d) development of water resources and economic scarcity of water;
- (e) social drivers and resistances to development of irrigation and progress in water management;
- (f) water balance approach in irrigation (and other ancillary uses);
- (g) management of multiple water resource (conjunctive use of surface and groundwater)
- (h) management of multi-use water service;
- (i) performance evaluation of irrigation schemes and benchmarking;
- (j) ways towards cost reduction alongside with performance improvement.

B. Membership of the group

4. In all, 17 participants from Japan, South Africa, Malaysia, Taiwan, Egypt, UK, India and Indonesia attended the meeting. WG meeting was chaired by Mr. Francois Brelle (France) and recommended following nominations as members and provisional members: Dr. Katsuyuki Shimizu (Japan) as Member while Mr. Mohammad Kazem Siah (Iran) and Dr. Wu Jingwei (China) as Provisional Members.

5. In addition, participants (one from each country) showed interest in becoming member of the WG. Their requests were considered and accepted - Ms. Mary Jean M. Gabriel (South Africa); Ir. Mat Hussin Bin Ghani (Malaysia); Mr. Ming-Young Jan (Taiwan); Mr. Waleed Hassan (Egypt) as Provisional Member while Mr. Ian Makin (UK); VPH D. Hafied Gany (Indonesia) as Observer subject to recommendation of their nomination by the respective National Committee. Membership status is given in **Annex 6 (page 49)**.

6. The group elected Mr. Francois Brelle (France) as Chair, Ms. Mary Jean M. Gabriel (South Africa) as Vice Chair, and Dr. Katsuyuki Shimizu (Japan) as Secretary.

C. Any other business

7. Members after deliberation agreed that Irrigation Development and Irrigation Management are closely linked to issues addressed by other WG, especially:

- (a) M&R, as modernization is a way towards better efficiency and thus allows irrigation development; it was also pointed out that modernization concerns physical systems as well as organisations and management methods,
- (b) On-Farm, as developing and managing irrigation should be considered at farm level as well as at system level,
- (c) WATS, as improving irrigation efficiency is a key issue for irrigation development, and
- (d) PQW, as developing reuse is a way to make more water resource available for developing irrigation.

8. The participants thus, agreed that PCTA should be requested to set up a formal coordination between these 5 WGs to manage necessary interrelations. The coordination mechanism may consist of respective Theme leaders and WGs Chair and Co-Chairs and they can interact through virtual meeting.



**Minutes of the 30th Meeting of the
WORKING GROUP ON COMPREHENSIVE APPROACHES TO
FLOOD MANAGEMENT (WG-CAFM)
13 October 2015, 11.00-12.30 hours
Montpellier, France**

Strategy Theme: Basin

Year of Establishment: 1999

Completion of the Mandate: 2015

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

Members Present: (1) Dr. Kamran Emami, Chairman (Iran); (2) Dr. Takao Masumoto, Secretary (Japan); (3) Mr. Maurice Roos (USA); (4) Mr. Olli-Matti Verta (Finland); (5) Mr. Marcel Marchand (The Netherlands) represented by PH Prof Bart Schultz; (6) Mr. ArthonSuttigan (Thailand); and (7) Mr. Mohd Adnan Mohd Nor (Malaysia).

Observers: (i) Ir. Mukhlis Zaindal Abioin (Finland); (ii) Ir. Mikka Turunen (Finland); and (iii) Ir. Pauline Bremond (France).

Permanent Observer: Mr. Giacomo Teruggi (WMO Representative).

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

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

1. Dr. Kamran Emami, Chairman of the WG-CAFM presented the report on actions taken on the decisions made during the Gwangju (2014), South Korea meeting and informed that the committee continued to encourage members to submit their papers on 'Adaptive Flood Risk Management' towards publishing a book. He reported that 10 papers have been received so far and informed members that there are still opportunities for another 3 or 4 papers. He also reported that the efforts were made to publicize and invite papers for the International Workshop on "Non-Structural Adaptations to Flood Management" which was held on 12 October 2015 in Montpellier, France.

WG-CAFM Minutes Item 2: Review of the membership of the Working Group

2. The WG reviewed new nomination of Mr. V.D. Roy (India) and accepted him as 'Provisional Member' for one year due his absence. He is expected to contribute to the activities of the working group by actively participating in the WG meetings, by e-mail or video-conferencing during the year for regularizing the membership of the WG thereafter. Mr. R.K. Agarwal, Direct Member (India) and Dr. Rozalija Cvejic (Slovenia) nominated as 'Provisional Member' of the WG at Gwangju meeting in 2014, accepted as Member since both have contributed and also assured to continue to actively contribute to the activities of Working Group through email etc. On the basis of non-attendance, non-participation, no communication with ICID (ICID by-law 3.5) during the last 2 or more consecutive years, discontinuation of membership of Mr. Marcel Marchand (The Netherlands) was discussed. However the Chair informed the members that Dr. Marchand actively contributed his paper on the publication titled "Adaptive Flood Risk Management". After deliberations and on the basis that he has contributed to the WG, the meeting agreed that his membership in this WG shall continue. The membership status of the WG-CAFM is at **Annex 6 (page 49)**.

3. Since Germany has opted to discontinue its membership with ICID, Prof. Dr.-Ing. Klaus Rottcher (Germany), Vice-Chairman of the WG since 2012 will not be eligible to continue as a member of the WG. The WG recorded its appreciation and thanks to Dr Rottcher for all his valuable contributions and agreed for continuation of Dr. Rottcher as an Observer of the WG. Subsequently, WG elected Dr. Takao Masumoto (Japan) as the Vice Chair and Mr Mohd Adnan bin Mohd Nor (Malaysia) as the Secretary.

WG-CAFM Minutes Item 3: Presentations on Floods (Country Case Studies)

4. On behalf of French National Committee, Ir. Pauline Bremond, from IRSTEA Research Laboratory, France made country presentations on 'Cost-Benefit and Damage Assessment Model for Agriculture Areas' in France.

The WG requested Ir. Bremond to submit a paper on this topic for the “Adaptive Flood Risk Management” publication of the WG.

WG-CAFM Minutes Item 4: Publications of the Working Group on ‘Adaptive Flood Management’

5. The WG Chair informed that considering suggestion of PCTA/IEC to ensure that the publication is not just a compilation of practices of different countries but should give guidelines on proper flood management strategies, including both structural and non-structural approaches this publication is being integrated with earlier publication of the WG titled “Non Structural Approach to Flood Management”. The Chair reported that 10 Chapters have been received and requested each member to review atleast one paper. The Chair requested WMO representative to consider providing financial support for the publication, who conveyed WMO’s inability to accept this request, however, agreed to assist in reviewing the chapters before publication.

6. The Chair informed the meeting that Ir. Mohd Adnan bin Mohd Nor (Malaysia) presented a country paper on ‘Flood Management in Malaysia’ during the International Workshop on “Adaptive Flood Risk Management” on 12 October 2015 and he has agreed to submit a paper on the same subject for inclusion into the publication.

WG-CAFM Minutes Item 5: International Workshops

WG-CAFM Minutes Item 5.1: WG International Workshop on ‘Adaptive Flood Risk Management’ at Montpellier, France in October 2015

7. The Working Group organized an International Workshop titled “Non-Structural Adaptations to Flood Management” on 12 October 2015. The workshop was well attended and 10 papers and posters were presented. The workshop highlighted the effectiveness and efficiency of Non-Structural approaches such as ENSO based climate forecasting, updating rules curves, real time reservoir management and diversion of floods. The need for developing a win-win scenario for urban and rural areas based on flood insurance was also discussed. The Chairman agreed to assign one of the members of the group to prepare an article (1500 words) on ‘Non-Structural Adaptations to Flood Management’ for ICID News.

WG-CAFM Minutes Item 5.2: WIF2 at Chiang Mai, Thailand in November 2016, Sub-theme 2 : Managing impacts of climatic extremes with focus on floods and droughts

8. As suggested by PCTA in last meeting (2014) at Gwangju, South Korea, the WG decided to take active part in the organization of the sub-theme 2: Managing impacts of climatic extremes with focus on floods and droughts activities of the 2nd WIF at Chiang Mai, Thailand. In this context, the WG agreed that WG-CAFM would be responsible for the review process, managing the sessions and presenting the keynote address of Sub-theme 2.

WG-CAFM Minutes Item 6: Closure report and revised mandate of the WG

9. The Meeting agreed that since this WG-CAFM was operational for only one term, the Chair was requested to seek approval of PCTA for extension for another term for the period 2015-2018.

WG-CAFM Minutes Item 7: Any other business

10. Mr. Olli-Matti Verta (Finland) informed the meeting there is an annual Exhibition on Floods in London and suggested members to visit this and also suggested that WG should consider connecting to the organizers. PH Prof. Bart Schultz (The Netherlands) suggested the WG should focus on balanced level of hydrological safety and the effects of land subsidence in coastal areas in the context of sea level rise.



**Minutes of the 24th Meeting of the
COMMITTEE ON PUBLIC RELATIONS AND PUBLICATIONS (C-PR&P)
13 October 2015, 11.00-12.30 hours
Montpellier, France**

Strategy Theme: Knowledge

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. Yingduo Yu (China); (4) Dr. Vijay K. Labhsetwar represented Er Avinash Tyagi, Secretary General, ICID.

Observer: Ir. Mohd Anuar Musardar Yusoff (Malaysia)

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

C-PR&P Minutes Item 1: Action taken report by Chair

1. The Chair noted with appreciation that the Central Office continues to upgrade and improve the ICID website.

C-PR&P Minutes Item 2: Membership of the Committee

2. No new Members were proposed for 2015. The Committee encourages the National Committees to nominate more participants to the Committee.

C-PR&P Minutes Item 3: Publications brought out and under processing during period 2014-15

C-PR&P Minutes Item 3.1: Periodicals

3. The Committee was informed that the weekly *e-Bulletin*, monthly *News Update* and quarterly *ICID News* were regularly published during the year as scheduled. It was informed that all the past issues have been posted on the ICID website. The Committee noted that *2014 ICID Annual Report* was printed and two hard copies were sent to each National Committee. The Annual Report is also made available on the website.

C-PR&P Minutes Item 3.2: Special Publications

4. The Committee was informed that during the year, Central Office issued the following publications: *Transactions of the 22nd International Congress on Irrigation and Drainage*, which includes flip version of full length papers distributed on USB, 9th N.D. Gulhati Memorial Lecture for International Cooperation in Irrigation and Drainage on *Climate Variability and Change: Impacts on Water Availability* by Jeremiah R.D. Lengoasa, and Report of *the 22nd International Congress on Irrigation and Drainage* (with DVD contains integrated version of the Report, Speeches, Reports, Videos, Picture collection, etc.)

C-PR&P Minutes Item 3.3: Publications under processing

5. The Committee noted that the following publications are currently under processing:

- (a) *Inter-Basin Water Transfer: Global Experiences – Analyses and recommendations* and
- (b) *Water use charging systems and available financing of irrigation development: Country case studies.*

C-PR&P Minutes Item 3.4: Publications by National Committees

6. The Committee noted that a few National Committees have provided copies of some publications prepared by them to Central Office. These publications are included into the Integrated Library Management System. Through the Committee, all the National Committees were invited to send copies of their publications to Central Office to share with the global audience and were requested to contribute to the ILMS which is developed as a 'One-stop Catalogue' on irrigation and Drainage.

C-PR&P Minutes Item 4: Status of Sale of publications during the period 2014-15

7. The Committee reviewed the list of publications sold during the past year. Only two items were sold, while 14 items were provided at no charge to National Committees and ICID members.

C-PR&P Minutes Item 5: Report on ICID Journal

8. PH Bart Schultz presented a report on the *ICID Journal*. The Committee recommended that National Committees be reminded to send the addresses and e-mail details to get their share of hard and soft copy of the publication for distribution among their national partners.

C-PR&P Minutes Item 6: Updating Multilingual Technical Dictionary (MTD)

9. Following up on the decision taken during the 65th IEC meeting, the MTD was made available on the ICID website using the 2010 version of the MTD. Provision for additional language has been included and several National Committees have been invited to prepare the MTD in their national languages. Vide email, Mr. Arora has appreciated the initiative as it helps non-English speaking countries. The Committee recommends that a new work body on the MTD be established to help in updating and improving the MTD, especially with regard to the new languages. It would be useful to have a representative of each language in which the dictionary is translated, as members of the work body.

C-PR&P Minutes Item 7: Review of ICID website

10. The Committee reviewed the ICID website and noted that Central Office has been successfully carrying on their work to improve the website. The Committee also noted the changes in the website, including use of Social Media. The Committee again recommended that the home page be simplified, as there seems to be too much material on the home page.

C-PR&P Minutes Item 8: Exchange of information (video/audio conferencing)

11. Vide email, Mr. Arora agreed/ supported the use of video/ audio conferencing platform for sharing the information. The Committee recommends that workbodies may use video/audio conferencing (Webinar) to promote their work. The meeting ended with thanks to the Chair.



**Minutes of the Informal Meeting of the
WORKING GROUP ON WATER SAVING IN IRRIGATED AREAS (WG-WATS)
13 October 2015, 14.00-15.30 hours
Montpellier, France**

Strategy Theme: Schemes

Member Honorable Present: (1) VPH Dr. Mohamed Hassan Amer (Egypt); (2) VPH Dr. Adama Sangare (Mali); (3) VP Dr. Huseyin Gundogdu (Turkey)

Observers: (i) Jan, Ming-Young (Taiwan); (ii) Warren Helgason (Canada); (iii) Szalai, Sandor (Hungary); (iv) Kyung Sook Choi (Korea); (v) Mr. Ian W. Makin (UK); (vi) Kouyate Goundo Sissoko (Mali); (vii) Mr. Thierry Facon (Thailand); (viii) Jin-Yong Choi (Korea); (ix) Mr. Mehrzad Ehsani (Iran).

1. **Scoping Document of new Working Group:** The working group discussed the scoping document during the meeting which was accepted in general however some new idea emerged which WG decided to consider in the work plan. WG recommended the following mandate:

- (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.

2. **Membership for new WG:** The WG accepted Prof. (Ms.) Kyung-Sook Choi (Korea, Rep. of) as new member. Working group accepted Dr. M. Hassan Amer (Egypt), Dr. Adama Sangare (Mali) as the new members. Eng. S. Mohanarajah (Sri Lanka), Mr. Hassan Aboalbasher Ali (Sudan), Dr. P. Soman, Mr. S.P. Jadhav and Mr. Abijit Joshi (Direct Member-Jain Irrigation Systems Limited) were accepted as Provisional Members since none of them were present during the meeting. WG welcomed Mr. Ian W. Makin from IWMI and Mr. Thierry Facon from FAO as the Permanent Observers. Working Group also elected Mr. Mehrzad Ehsani (Iran) as the Chairman of the working group while Dr. Adama Sangare (Mali) was elected as the Vice Chairman. Membership status is given in **Annex 6 (page 49)**.

3. **Any other business:** One of the important task of the working group would be to compile success stories and best management practices in water saving which includes techniques, technology, management and innovation. Since these parameters are the main criteria for selecting Watsave award winners, WG is of the view that all those who have submitted their works through the National Committees for the Watsave Award should be requested to present their respective works on water saving in internal workshop of the WG proposed to be organized annually during WG meeting. The presentation of all submitted work from the national committees would be very good opportunity for the WG to exchange the experiences and encourage potential nominees to contribute and would support work plan and activities.



**Minutes of the 5th Meeting of the
WORKING GROUP ON SUSTAINABLE DEVELOPMENT OF TIDAL AREAS (WG-SDTA)
13 October 2015: 14:00-15:30 hours
Montpellier, France
Strategy Theme: Basin**

Year of Establishment: 2011

Completion of the Mandate: 2016

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

Members Present: (1) Dr. Ruey-Chy Kao, Chairman (Chinese Taipei); (2) Mr. Henk P. Ritzema, Vice-Chairman (The Netherlands); (3) Dr. Hajime Tanji, Secretary; (4) Dr. (Ms.) Hsiao Wen Wang (Chinese Taipei) as Young Professional; (5) Prof. Budi Santoso Wignyosukarto (Indonesia); (6) Dr. Jeongryeol Jang (Korea); and (7) Dr. Vijay K. Labhsetwar, Director, ICID represented by Er. Avinash C. Tyagi, Secretary General of ICID.

Member Hon. President: Prof. dr. Bart Schultz (The Netherlands), President Hon.

Observers: (i) Ir. Marinda Amitia (Indonesia); and (ii) Ir. Pin-Han Kuo (Taiwan); (iii) Ir. Yoon Kwangsik (Korea); (iv) Hong Dae-Buyk (Korea); (iv) Ir Lim Jung-Keun (Korea); and (v) Ir. Jin-Yong Choi (Korea).

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

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

1. The report regarding various actions taken on the decisions made during the last meeting of the WG at Gwangju (2014), Korea were summarized as:

- (a) The Chairman actively communicated with WG supporters, contributors and ICID Central Office on various issues and participated in the meeting of the 7th World Water Forum on April 12-17, 2015 at Daegu & Gyeongbuk, Korea.
- (b) For the short course, the Chairman has actively consulted with Taiwan Government for funding. The short course is being planned to be held in spring of 2016.
- (c) For the publication of Special Issue of ICID Journal on SDTA in 2016, the Chairman and Vice Chairman have established the 'Review Committee'. Prof. Henk P. Ritzema (The Netherlands) and Prof. Hsiao-Wen Wang (Chinese Taipei) were assigned to lead the Review Committee.
- (d) All of the WG-SDTA members were encouraged to help updating the 'Basic Information' related to the tidal area reclamation and conservation for ICID website following the minutes of the 4th meeting of WG-SDTA (2014).
- (e) For organizing the Internal Workshop on 'Environmental Hazards in Tidal Areas' in 2015, the announcement of call for paper was circulated to all ICID members.

WG-SDTA Minutes Item 2: Review of the membership of the Working Group

2. There were no new nominations received this year. The WG encouraged the NCs having significant tidal area in their country to nominate members for WG-SDTA. The membership status of the WG-SDTA is at **Annex 6 (page 49)**.

WG-SDTA Minutes Item 3: Internal Workshop on Environmental Hazards in Tidal Areas at Montpellier, France in October 2015

3. An Internal Workshop on 'Environmental Hazards in Tidal Areas' was held on 13 October 2015 (16:00-17:30 hours). Prof. Henk P. Ritzema and Prof. Hsiao-Wen Wang chaired the workshop of the group. Five papers were presented in the workshop as listed in **Annex**. The presented papers would be considered for publishing in Special Issue of ICID Journal in 2016.

WG-SDTA Minutes Item 4: Organizing a Short Course on SDTA in 2016 at Taiwan

4. It has been decided to organize an International Short Course on SDTA in Taiwan in spring of 2016. The Short Course will be 2-3 days of lectures and 2-3 days of field trip / technical tours and practical activities. Prof. Ruey-Chy Kao (Chinese Taipei), Chairman of WG-SDTA is responsible for the proposal / program preparing and will send it to the ICID Central Office by the end of 2015

5. The Short Course will be open to the young professionals under age 40 and preference may be given to ICID member countries. To meet the mandate VI of the WG, experts / professionals from ICID member countries having tidal areas may be invited to exchange / share their country experiences with the participants of the Short Course. Prof. Kao is in the process of seeking the grants amounting to US \$100,000 from Taiwan Government. The grants are expected to cover all the expenses towards organizing the Short Course such as travel, accommodation / hotels etc. of all faculty and trainees participants, especially from low income countries.

WG-SDTA Minutes Item 5: Publications of the Working Group**WG-SDTA Minutes Item 5.1: A Special Issue of ICID Journal on SDTA in 2016**

6. It has been decided to publish a Special Issue of ICID Journal on SDTA in 2016. Twelve papers will be selected for the Special Issue from a pool of 21 papers presented in the internal (2013, 2015), and international (2014) workshops. The cost of the publication of Special Issue (\$ 15,000) will be shared by the Japanese National Committee of ICID (JNC-ICID), Korean National Committee of ICID (KCID), Chinese National Committee of ICID (CNCID) and the ICID-Chinese Taipei Committee (CTCID).

7. Prof. Henk P. Ritzema and Prof. Hsiao-Wen Wang have been assigned to lead the Review Committee and all of the WG members are responsible for reviewing the papers. All papers will be reviewed by at least two reviewers. The review process, in two-stages, is expected to be finished in June 2016. The authors, thus are asked to provide the full papers before the beginning of December 2015 for the review process.

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

8. Chairman requested all members to take up the task of updating the terms in the MTD as referred in the Agenda of PCTA under item 4, which are available on the ICID website <http://www.icid.org/mtd.html>. Prof. Hajime Tanji (Secretary, WG-SDTA) volunteered to be the representative of WG-SDTA to complete the task by May 2016.

WG-SDTA Minutes Item 7: Any other business

9. The draft of the final report of WG-SDTA for period 2011 to 2016 will be prepared by Chair in cooperation with Vice-Chairman and Secretary. Since the WG will be concluding its mandate in 2016, a 'Scoping Document' (SD) will also be prepared by Chair in cooperation with Vice-Chairman and Secretary and presented during the next meeting at Chiang Mai, Thailand in 2016. All the members are requested to review the drafts during the Short Course in Spring in 2016 or via the video-conferencing provided by ICID Central Office.

The meeting ended with thanks to the Chair.



Annex [Appendix XV, Item 3]**LIST OF PAPERS PRESENTED IN THE
'INTERNAL WORKSHOP' OF WG-SDTA
Montpellier, France in 2015**

Sl. No.	Presenters	Title
1	Mr. Henk P. Ritzema (The Netherlands)	Adapting to Climate Change: Challenges in the Netherlands
2	Dr. Hajime Tanji (Japan)	Environmental Hazard in Reclaimed Land in Japan from the View Point of Technology Transfer from Holland
3	Dr. (Ms.) Hsiao-Wen Wang and Ir. Pin-Han Kuo (Chinese Taipei)	How Stakeholder Involvement Guides Integrated Management in Tidal Wetlands in Taiwan
4	Prof. Budi Santoso Wignyosukarto (Indonesia)	Blocking Drainage Channel on the Burning Management of Peatland
5	Ir. Jung-Hoon Choi, Ir. Chan-Sung Oh and Ir. Jeong-Ryeol Jang (Korea)	Estimation of Temporal and Spatial Changes of Salinity and Required Time of Desalinization according to Internal Development Scenarios in Saemangeum Reservoir

**Minutes of the 18th Meeting of the
WORKING GROUP ON ON-FARM IRRIGATION SYSTEMS (WG-ON-FARM)
13 October 2015, 16.00-17.30 hours
Montpellier, France
Strategy Theme: On-Farm**

Year of Establishment: 1998

Completion of the Mandate: 2015

Mandate: (i) To promote on-farm irrigation as part of integrated water resources management, and (ii) To promote sustainable efficient approaches for on-farm irrigation.

Members Present: (1) VPH Felix B. Reinders, Chairman (South Africa); (2) Dr. A.K. Randev, Secretary (India); (3) Dr. Kim Sun-Joo (Korea) represented by Dr. Jin-Yong Choi; (4) Dr. Graziano Ghinassi (Italy); (5) Dr. Akira Iwamoto (Japan); (6) Dr. Chen, Ching-Tien (Chinese Taipei); (7) Mr. Suman Sijapati (Nepal).

Member Honorable Present: VP Dr. Huseyin Gundogdu (Turkey)

Observers: (i) Mr. Stephen Mills (Australia); (ii) Mr. Rafael González Perea – Young Professional (Spain); (iii) Ms. Kathleen Heuvel – Young Professional (Australia); (iv) Mr. Bashu Dev Lohanee (Nepal); (v) Dr. Hossein Dehghani Sanij (Iran); (vi) Mr. Ian W. Makin (UK); (vii) Sung-Hack Lee (Korea); (viii) Warren Helgason (Canada); (ix) Szalai Sandor (Hungary).

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

WG-ON-FARM Minutes Item 1: Action taken report by Chair

1. The Chair Mr Reinders gave an overview of the activities of the WG from 1998 to 2014. The Working Group on On-Farm Irrigation Systems (WG-ON-FARM) was setup in 1998 to promote sustainable efficient approach for on-farm irrigation considering on-farm irrigation as part of integrated water resources management. The group has brought out many publications (manuals and guidelines) for planning, design and evaluation of micro and sprinkler irrigation systems during its tenure. One of the important activities of the WG is compilation of the data on sprinkler and micro irrigated areas in ICID member and other countries.

WG-ON-FARM Minutes Item 2: Review of the membership of the working group

2. The Japanese National Committee (JNCID) nominated Dr. Akira Iwamoto (*existing member*) for the membership of the new WG. Nominations of Mr. Bashu Dev Lohanee (Nepal) and Mr. Muhammad Tahir Anwar (Pakistan) were received for the membership of the new WG. Iranian National Committee (IRNCID) nominated Dr. Hossein Dehghani Sanij (Iran) for the membership of the group.

3. WG discussed and reviewed nominations received for new members and recommended Dr. Akira Iwamoto (Japan), Mr. Bashu Dev Lohanee (Nepal), Dr. Hossein Dehghani Sanij (Iran) and Mr. Carl Walters (Australia) represented by Mr. Mills as members of the WG. WG also recommended Mr. M.S. Sudhakar, Mr. S.P. Jadhav, and Mr. Abijit Joshi (India) nominated by JISL as Provisional Member as they were not represented in this meeting. WG also discontinued membership of Dr. Kim Sun-Joo, Mr. Yan Guanyu and Mr. Francois Chretien as they have not contributed to the working group for two or more years. VPH Kovalenko (Ukraine) will remain a member as Ukraine's subscription fees has been paid. Membership status is given in **Annex 6 (page 49)**.

WG-ON-FARM Minutes Item 3: Collection and collation of Micro and Sprinkler Data

4. After the Gwangju meeting, the Central Office had followed up with the National Committees to update the datasheets pertaining to micro and sprinkler area. The updated data were received from the National Committees of Austria, Burkina Faso, Iran, Japan, Spain, Sudan, and Uzbekistan. Member Countries are encouraged to submit updated data to ICID Central Office.

WG-ON-FARM Minutes Item 4: Proposals for 9th International Micro Irrigation Symposium

5. Keeping in view the importance of the subject and expected participation of large number of participants, WG after deliberation recommended proposal for renaming Micro Irrigation Symposium as Micro Irrigation Conference to PCTA and IEC for approval with the following main objectives:

- (a) To share experiences in the use of new technologies and best management practices in drip, micro-sprinkler, and other localized irrigation systems.
- (b) To review the status of use of micro irrigation for smallholders.
- (c) To understand socio-economic and technological factors impeding expansion of drip and micro-sprinkler irrigation area.

6. WG discussed proposal of the Indian National Committee on Surface Water (INCSW) for organizing 9th International Micro Irrigation Conference in 2019 or 2020 and recommended for in-principle approval by PCTA and IEC.

WG-ON-FARM Minutes Item 5: Publications of the working group**WG-ON-FARM Minutes Item 5.1: Article on “Improvement of the On-Farm Irrigation Systems Using Simple Water Control, Measuring and Application Devices”**

7. WG noted that the article on “Improvement of the On-Farm Irrigation Systems Using Simple Water Control Measuring and Application Devices” is almost complete and likely to be submitted shortly. The Chairman informed that it will be finalized and submitted by the end of the year 2015.

WG-ON-FARM Minutes Item 5.2: Paper on “Micro irrigation for smallholders and greenhouses”

8. WG Chair informed that Prof. Yoshisuke Nakano (Japan) had provided the final report on ‘Micro irrigation for smallholders and greenhouses’ which is under review and will be finalized by the end of the year 2015 for submission to ICID for publication.

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

9. The WG discussed the issue of review/updating the terms of the MTD (2010) that fall within their respective scope of activities. WG Chair requested members to look at the MTD and suggest changes / modification including addition of new terms, contributing pictures, links and videos related to that particular term.

WG-ON-FARM Minutes Item 7: Guidelines for flood based irrigation systems

10. As Dr. Haile was not present, so it was decided that he will make presentation at the next meeting. During discussions, Mr Mills (Australia) proposed that Mr. Walters who is an expert in this field can also make a presentation on the technologies that are in use in Australia in the next meeting.

WG-ON-FARM Minutes Item 8: Website of the workbody

11. Members noted that the website of the working group (<http://www.icid.org/wg_onfarm.html>) is fully functional. WG Chair requested members to access the WG website and share interesting reports/ articles/ documents etc. to ICID Central Office for posting on the website.

WG-ON-FARM Minutes Item 9: Closure report and revised mandate of the WG

12. WG members noted summary of past activities of the working group during past 17 years. Chair apprised members of important highlights of the past 17 years and how it addressed the objectives and mandate of the WG. He further informed that the WG group also received the Best Performing Workbody Award in 2014 for the period 2011-2014. WG Chair would prepare closure report of the WG highlighting activities and achievements of the WG and how objective and mandate of the WG have been achieved including conclusions, recommendations and way forward for ICID record.

13. WG reviewed the draft scoping document prepared by the Core Group (Dr. Haile, Dr. Randev, Mr. Abdullah, Mr. Sijapati and Mr Reinders) incorporating comments of ICID Central Office and NCs and suggested few modifications. WG after incorporating comments, recommended to PCTA updated scoping

document for the new Working Group on Sustainable On-Farm Irrigation Systems Development (WG-SON-FARM) for its approval and recommended that the new WG will start their activities in 2016 with the election of a new Chair, Vice Chair and Secretary.

WG-ON-FARM Minutes Item 10: Any other business

14. The outgoing Chair for WG-ON-FARM, Mr Reinders thanked all members for their active participation and mentioned that the success achieved by the WG was due to inputs from all members. At the next meeting in Thailand the new Working Group on Sustainable On-Farm Irrigation Systems Development (WG-SON-FARM) will be established and a new Chair, Vice Chair and Secretary will be elected.



**Minutes of the 1st Meeting of the
WORKING GROUP ON INSTITUTIONAL AND ORGANISATIONAL ASPECTS OF
IRRIGATION/ DRAINAGE SYSTEM MANAGEMENT (WG-IOA)
14 October 2015, 09.00-10.30 hours
Montpellier, France**

Strategy Theme: Schemes

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 (Indonesia); (2) Dr. Kazumi Yamaoka (Japan); (3) ICID Central Office represented by Harish K. Varma.

Member Honorable Present: VPH Frank Dimick (USA); VP Dr. Huseyin Gundogdu (Turkey)

Observers: (i) Masao Miyazaki (Japan); (ii) Mr. Ian W Makin (UK); (iii) Mr. Madhav Belbase (Nepal); (iv) Dr. Hasan Basri Yuksel (Turkey); (v) Engr. Abdullahi Abdulrahman Ogole (Nigeria).

WG-IOA Minutes Item 1: Introduction of the new Working Group

1. During the meeting, the Convener of the WG VPH Dr. Hafied Gany made a presentation giving background of setting of the WG, objectives and outcomes and other relevant items (available on WG web site). He informed that the main objectives and outcome of the WG are identified as follows:

- (a) the topic of institutional and organisational aspects of irrigation/drainage system management is relevant to the vision and mission of ICID and of interest for its members, especially in countries with a high, medium or low Human Development Index;
- (b) the WG is expected to contribute to effective implementation of the Strategy Theme Schemes and to other strategy themes for that matter; and
- (c) most of the activities in irrigation/drainage will be in the field of modernisation of existing schemes. For most of the schemes, especially in countries with a high, medium or low Human Development Index, institutional and organisational changes will play an important role.

The expected outcomes of the WG activities are:

- (a) sharing of knowledge and experience by representatives of NCs to enable them to disseminate the knowledge within their country;
- (b) summarized overview of existing key books, manuals, guidelines and other relevant publications on the topic;
- (c) the WG is expected to organise a series of workshops, seminars or symposia in three years at occasion of an international ICID meeting; and
- (d) to prepare an overview paper on the state of the art on the topic for publication in Irrigation and Drainage (IRD).

WG-IOA Minutes Item 2: Review of membership of the working group**WG-IOA Minutes Item 2.1: Membership of the group**

2. VPH Dr. Gany presented details of nominations received and after deliberations, the WG recommended the following for acceptance by PCTA: Mr. Philip J. Riddell (UK); Mr. Madhav Belbase (Nepal); Dr. Kazumi Yamaoka in place of Dr. Masayoshi Satoh (Japan); VPH Franklin Dimick (USA) and Mr. Hasan Basri Yuksel (Turkey) as member while Dr. Seong Joon Kim (Korea, Rep. of); Dr. Ding Kunlun (China); Mr. Franck Sanfilippo (France); and Abdullahi Abdul Rahman (Nigeria)¹ as Provisional Member. Membership status is given in **Annex 6 (page 49)**.

WG-IOA Minutes Item 2.2: Selection of new Chair, Vice Chair and Secretary

3. The working group selected VPH Dr. Hafied Gany as Chair, Dr. Kazumi Yamaoka as Vice Chair and Mr. Madhav Belbase as Secretary, respectively.

WG-IOA Minutes Item 3: Work plan of the group

4. The group discussed the importance of the institutional aspects of management, operation and maintenance of irrigation/drainage schemes in light of its role in support of global food production. The group proposed the work plan of the group as follows.

5. **Overall working program will be based on six years period, including:** (i) Establishment phase; (ii) Literature and case study review; (iii) Study, investigate analyses for material of workshop, seminar, symposium and subsequent publication – with the compilation of relevant materials such as Legal Framework; Institution and Organization; Approached on role of WUAs; Participatory Irrigation Management (PIM); Transfer of Irrigation Drainage Management Transfer (IDMT); PDIM and Public Private Partnership (PPP), as well as communication and interaction with other irrigation related organization such as INWEPF, PAWEES and I&O on Water System Heritage for toward sustainable implementation; and subsequently (iv) Preparation of publication of books, manuals, guidelines and other relevant publications on the topic of I&O.

6. **Interactive database communication:** The WG proposed to conduct its activities through interactive communication which will be done through the sharing of “Drop Box”, with periodical on-line meeting facility through the Central Office of ICID, including data collection and information through WG website facilitated by Central Office of ICID.

7. **Routine interactive communication:** For routine interactive communication within the first three years period, the WG will be using DropBox Sharing internally among the WG members. Each member will have access to “DropBox” with individual address subject to invitation by the “admin”, which will be categorized based upon region, country, or subjects related to Institution and Organization. Mutual utilization of the “DropBox” will be conducted by “Admin” through particular rule to avoid duplication or complication in editing or rectification.

8. **On-line meeting interaction and discussion:** Periodical on-line meeting will be conducted through on line meeting room which will be facilitated by Central Office of ICID based on mutually acceptable schedule by the members of the WG.

WG-IOA Minutes Item 4: Presentation by the working group members

9. Due to time constraint, only Turkey made general outline about the importance of Institution and Organization for sustaining Irrigation and Drainage implementation in the future. The subsequent country presentation will be conducted through exchange of information along the routine on-line interaction, annual meeting or on-line workshop or seminars.

10. On behalf of Central Office, Er. Harish K Varma suggested to set up a website for the WG which would be facilitated by the Central office and requested members to provide information/material for uploading on the WG website.

WG-IOA Minutes Item 5: Any other business

The meeting ended with thanks to the Convener.



¹ Subject to recommendation from National Committee

**Minutes of the 8th Meeting of the
WORKING GROUP ON WATER MANAGEMENT IN
WATER STRESSED REGIONS (WG-DROUGHT)
14 October 2015, 09:00-10:30
Montpellier, France**

Strategy Theme: Basin

Year of Establishment: 2008

Completion of the Mandate: 2015

Mandate:

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

Members Present: (1) VPH Mr. Franklin E. Dimick (USA), Chairman; (2) Mr. V C Ballard (Australia), Secretary; (3) Prof Chang-Chi Cheng (Chinese Taipei); (4) Dr. Takanori Nagano (Japan); (4) Dr. Graziano Ghinassi (Italy); and (5) Secretary General, ICID represented by Er. Harish Kumar Varma, Executive Director, ICID Central Office.

Member Honorable Present: Dr. Saeed Nairizi (Iran), President, ICID.

Observers: (i) Dr. Sandor Szalai (Hungary), (ii) Ir. Jan Ming-Young (Taiwan), (iii) Ir. Wen Fang Rong (Taiwan), (iv) Ir. Yang Chao-Cheng (Taiwan), (v) Wen-Chen Huang (Taiwan), (vi) Dr Sylvester Mpandeli (South Africa), (vi) Ir. Issam Khaddam (Syria), and (vii) Mr. Maurice Roos (USA).

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

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

1. VPH Franklin E. Dimick, Chairman of the WG-DROUGHT apprised members of the actions taken as per decision in the last meeting of the WG at Gwangju.

WG-DROUGHT Minutes Item 2: Review of the membership of the working group

2. Since this was the final meeting of the present working group, there was no need to review the membership status. However, new nomination of Mr. Sudhakar (Direct Member) received from M/s. Jain Irrigation Systems Ltd. (JISL), India was considered and accepted as 'provisional member' of the group for one year due to his absence. In accordance with ICID By-laws 3.5, discontinuation of the membership of Dr. Graziano Ghinassi (Italy) on the basis of non-attendance and no communication was discussed in the meeting of the WG. On his request, WG considered and retained his membership of the WG. The membership status of the WG-DROUGHT is at **Annex 6 (page 49)**.

WG-DROUGHT Minutes Item 3: WebEx meeting of the group

3. The Chairman of the WG apprised members that the working group successfully organized its first virtual meeting through video-conference on 18th February 2015 facilitated by the ICID Central Office. The aim of the WebEx meeting/video-conference was to increase input to the three themes of the technical report of the WG. Although only four people attended the video-conference, it was useful in determining the schedule for completion of the technical report.

WG-DROUGHT Minutes Item 4: Presentations by Theme Leaders

4. Prof Chang-Chi Cheng (Chinese Taipei) presented an overview of the chapter for Theme 1 (Drought Management Strategies in Water Stressed /Scarce Regions) of the Technical Paper of the WG. There was no presentation for Theme 2 (Coping with Water Scarcity) as the team leader, Mr Jafari, was unable to be present and for Theme 3 (Rainfall Harvesting and Management for Sustainable Agriculture), as the state of that chapter had not

changed significantly from the presentation given a year ago at Gwangju, Korea. In addition to presentation on Theme 1, Mr Maurice Roos (USA) presented a description of the current drought situation in California, USA followed by active discussion among members. There was a view that there are apparent similarities with experiences in other countries.

WG-DROUGHT Minutes Item 5: Publications of the WG

WG-DROUGHT Minutes Item 5.1: Technical Report of the WG- DROUGHT

5. Contributions to the Technical Report from members other than team leaders and the Chair have been disappointing. Nevertheless enough material has been gathered for a report to be completed, though it will be less comprehensive than was hoped. A small working group of the available team leaders and the Chairman will complete the report by April 2016 and submit the same to ICID Central Office.

WG-DROUGHT Minutes Item 5.2: Publication on Design Guidelines for Flood Based Farming Systems

6. Dr. Abraham Mehrari Haile (The Netherlands) was not present so this item could not be discussed during the meeting of WG.

WG-DROUGHT Minutes Item 5.3: Scoping Document for reconstitution of the WG

7. It had been intended to develop a 'Scoping Document' (SD) to establish a new working group to address the issue of management of water supplies in areas of man-made drought or continuing water scarcity. However the executive members of the present WG felt that there was little point in establishing such a WG in view of the lack of interest by most members in contributing to activities of the WG and producing the 'Technical Report' to fulfill the mandate of the present group. During discussion President, ICID Dr Nairizi stressed, and the WG generally agreed, that the issue of man-made or continuing water shortage is a very important one, in which ICID should have an interest and be able to provide guidance.

8. It was agreed that a small task force should be established to address this issue rather than a new working group. Initially, it will consist of the four people completing the 'Technical Report' of the present Working Group, but it will seek further members as needed. After discussion, PCTA agreed to extend the term of the WG by one year till 2016 to develop a scoping document for a new WG.

9. While discussing technical report of the WG, some of the members felt that the present Technical Report has not well captured additional level of complexity in policy beyond "national" level arising due to international sharing of river basins by many countries which would need to consider international agreement about water sharing and policies in times of water shortage. WG chair informed that this was due to the fact that few countries, including two islands that have contributed either have no or few borders cutting across catchments. WG agreed that the new Task Force/WG should seek input from countries where international agreements are needed and improve technical report further.

WG-DROUGHT Minutes Item 5.4: Closure report of the WG

10. The activities of the WG are summarized in Annex 4 of the WG Agenda (Page No 166-167). The members of the WG who are to finalize the Technical Report will also add to that summary as necessary to provide a brief description of how the objectives and mandates of the WG have been achieved, including conclusions, recommendations and the way forward as discussed and agreed.



**Minutes of the 4th Meeting of the
TASK FORCE ON VALUE ENGINEERING (TF-VE)
14 October 2015: 09:00-10:30 hours
Montpellier, France
Strategy Theme: Knowledge**

Year of Establishment: 2012

Completion of the Mandate: 2015

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) Eng. Suman Sijapati (Nepal); and (3) Dr. Toshihiko Kuno (Japan).

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 Gwangju (2014), South Korea meeting. He informed members that VE resulted in a total saving of US\$ 24 billion in transportation projects worth US\$ 400 billion (6% of the total cost) and shared statistics of savings in US Land Highway Program 1997-2013 with members. Members were informed that for each US\$ 1 spent in value saving of US\$ 150 were achieved in the project. He highlighted that saving from \$ 1m to \$ 61 m and (2% to 65% of the project cost) have been seen during 50 years' experience of application of VE. He presented case of application of VE on US Army Corp of Engineers projects and stated that the total saving due to application of VE in US Corps of Engineers projects was more than \$ 5.3 Billion and about 7000 engineers and managers have attended VE training course so far. Dr. Emami emphasized that the potential of saving in irrigation and flood projects can be in range of 10 to 30 per cent, especially in developing countries. DVD on VE including the following films and other document related to the worldwide experiences of VE was distributed to the Members:

- (a) Value Engineering in the Virginia department of Transportation
- (b) Value Engineering Requirements for Federal Aid Project
- (c) Value Engineering in Surface water project
- (d) Value Engineering, and effective and efficient tool for sustainable irrigated agriculture

TF-VE Minutes Item 2: Membership of the Task Force

2. Nominations of Mr. Abijit Joshi and Mr. Yeolkar (Direct Members) received from M/s. Jain Irrigation Systems Limited, India were accepted as provisional members for one year as they were not present. Membership status of the TF-VE is at **Annex 6 (page 49)**.

TF-VE Minutes Item 3: Internal Workshop of TF-VE at Montpellier, France in 2015

An Internal Workshop on 'Value Methodology for Enhancing Large Project' was organized by TF-VE on 14 October 2015 at Montpellier, France wherein following three presentations were made by Dr. Emami (Iran) and Dr. Toshihiko Kuno (Japan) : (i) VE Application in Water Engineering, (ii) Value Engineering, Creative Synergy and the Challenges of the Third Millennium, and (iii) Trend of VE in Japan.

TF-VE Minutes Item 4: Publication of the TF

3. The TF decided to publish a manual on 'Application of Value Engineering in irrigation and flood projects' based on the mandate and activities of the TF. The manual would consist of three chapters – (i) Value methodology, (ii) the results of application of VE in irrigation and flood projects, and (iii) conclusions. A Questionnaire for the second chapter would be sent to all National Committees for their contributions, if any.

TF-VE Minutes Item 5: Developing TF website

4. TF Chair requested members to provide material, documents, reports, presentation etc. for uploading on the web site of the TF.

TF-VE Minutes Item 6: Closure report of the Task Force

5. TF Chair stated that the evolution of VE methodology has taken long period about 50 years [1947 to 1997] in the US and about 30 years [1965 to 1998] in Japan and its acceptance is very slow. Therefore a longer period is required for ICID members to accept the concept of Value Engineering in Irrigation and Drainage. Considering the slow acceptance of this methodology and longer time needed for promoting VE in Irrigation and flood management projects, the WG recommended to PCTA for a second term for TF-VE (**refer PCTA minutes, Item 7.3**).

6. In view of the proposal to seek extension of the TF for the second term, no closure report was prepared.

TF-VE Minutes Item 7: Any other business**TF-VE Minutes item 7.1: Organizing an International Workshop of TF-VE, Chiang Mai, Thailand in 2016**

7. In order to achieve the main objective of the TF, an International Workshop on 'Application of Value Engineering for Saving in Irrigation and Flood Projects' is proposed during 2nd WIF at Chiang Mai, Thailand in November 2016.

TF-VE Minutes item 7.2: Promoting VE in the context of TSU (Technical Support Unit)

8. In order to promote Value Engineering in the member countries, the TF proposed to contribute to the Technical Support Unit (TSU) being established by way of capacity development in member countries in value engineering through training and lectures.



**Minutes of the 3rd Meeting of the
TASK FORCE TO GUIDE ICID INPUTS TO 7TH WORLD WATER FORUM (TF-WWF7)
14 October 2015, 11.00-12.30 hours
Montpellier, France
Strategy Theme: Knowledge**

Year of Establishment: 2012

Completion of the Mandate: 2015

Mandate: (1) To provide overarching lead role on behalf of ICID for inputs to 7th WWF by liaising with: (i) National Committees for required inputs for active participation in the themes of 7th WWF which are of direct relevance to ICID, and (ii) Workbodies on specific subjects related with 7th WWF, (2) To liaise with Korean National Committee (KCID) for preparatory work of 7th WWF; (3) To liaise with 7th WWF Program Committee and other International Bodies, especially FAO, interested to participate in the activities proposed to be organized during the 7th WWF; and (4) To regularly report to the IEC of the developments in the preparatory works leading to 7th WWF and recommend ICID inputs for consideration in the next IEC.

Members Present: (1) VPH Shinsuke Ota (Japan); (2) PH Prof. dr. Bart Schultz (The Netherlands); (3) Secretary General Avinash Tyagi.

Member Honorable Present: (1) President Dr. Saeed Nairizi (Iran); (2) VP Dr. Huseyin Gundogdu (Turkey); (3) VPH Frank Dimick (USA)

Observers: (i) Dr. Kazumi Yamaoka (Japan); (ii) Masao Miyazaki (Japan); (iii) Hassan El M Chouri (France); (iv) Mr. Thierry Facon (FAO, Thailand)

TF-WWF7 Minutes Item 1: Action taken report by Chair

1. Chairman VPH Shinsuke Ota reported on the actions taken on the various decisions of the Task Force made at its last meeting held at Gwangju (2014).

TF-WWF7 Minutes Item 1.1: Participation in WWC BoG meeting and International Water & Energy Conference in October 2014

2. The Chair presented a brief report of the participation in 53rd WWC BoG meeting and International Water and Energy Conference held in 2014 at Marseille, France.

TF-WWF7 Minutes Item 1.2: Preparation of the session 2.1.3

3. Chair presented a brief report of the sessions under the Theme Water and Food at the 7th World Water Forum, focusing on session 2.1.3 'Modernization of irrigation/drainage schemes for food security, rural prosperity and poverty alleviation'. He informed that five international and five domestic organizations took part in the organization of the session. They made presentations from various viewpoints on modernization of irrigation schemes.

TF-WWF7 Minutes Item 1.3: Coordination of other sessions and events

4. Chair presented a brief report of the various sessions and events at the Forum in which ICID was requested to participate. Following are the events where ICID was invited to be a partner and President Dr. Nairizi acted as a speaker/panelist:

- (a) Session 1.4.2 Water storage Infrastructures for UN SDG coordinated by ICOLD;
- (b) Session 4.4.1 Fostering water heritage, water values and related cultural expressions coordinated by ICOMOS Netherlands;
- (c) High level Panel on "How can we achieve a water and food secure future?", coordinated by FAO and WWC;
- (d) Cross-cutting Session on The Water-Energy-Food Nexus: "Are we finally talking?", coordinated by FAO, IWA and IUCN

- (e) Side event on “Ensuring Sustainability of Irrigation Facilities after Transfer to Water User Organizations (WUOs)”, organized by DSI of Turkey and TUCID
- (f) Side event on “Communal Water Management for Coherence and Resilience”, coordinated by Japan International Research Center for Agricultural Sciences (JIRCAS)

TF-WWF7 Minutes Item 1.4: Preparation for Implementation of Roadmap

5. The TF prepared and presented the Implementation Roadmap (IR). The Chair thanked the support of various NCs and WGs in preparing it. The highlights of the roadmap were:

(a) 2015 October (66th IEC)

- (i) To establish TF-WWF8 to monitor and pushing forward the actions,
- (ii) To establish WG-Modernization & Revitalization

(b) 2015 December (COP21)

- (i) To make a report on CC adaptation

(c) 2016 November (67th IEC and WIF2)

- (i) To hold a symposium on irrigation modernization in collaboration with other sectors
- (ii) To hold an international workshop on new developments in irrigation modernization technology
- (iii) To make and disseminate a report on water management in changing world

(d) 2017 October (68th IEC and 23rd Congress)

- (i) To release an appeal on modernization of irrigation to policy-makers
- (ii) To discuss standards and codes of practice
- (iii) To make and disseminate a report on modernization irrigation/drainage

6. The TF recommended that the actions set in IR would be steadily carried out by each concerned workbody.

TF-WWF7 Minutes Item 1.5: Involvement in Political Process from ICID

7. VPH Shinsuke Ota briefed about the political processes at the WWF7. He pointed out that as coordinator of Thematic Design Group 2.1 he ensured that a sentence mentioning necessity of appropriate investments in irrigation modernization was included in the Ministerial Declaration.

TF-WWF7 Minutes Item 1.6: Preparation of Poster Exhibition

8. National Committees of Canada, China, France, India, Iran, Japan, Korea, Mali, Spain, Thailand, Turkey contributed by submitting pictures and relevant information for the poster exhibition covering topics related to agriculture water management, modernization of irrigation system, climate change etc. at WWF7 at Daegu (Korea). The same posters together with other ICID posters were displayed at Montpellier Meetings (October 2015) in France as well.

TF-WWF7 Minutes Item 1.7: Participation in WWC BoG meeting held just before WWF7

9. Chairman briefed about the 54th WWC BoG meeting held in Gyeongju on 11 April 2015.

TF-WWF7 Minutes Item 2: Report of ICID contributions to WWF-7

10. ICID contributions to World Water Forum 7 (WWF7) were:

- (a) Coordination of and input to Session 2.1.3 Modernization of irrigation/drainage schemes for food security, rural prosperity and poverty alleviation
- (b) Participation in the concluding session of 2.1 Water for food by conveying ICID messages including commitment about ICID actions set in IR

- (c) Participation in the sessions and events mentioned under Item 1.3 by making presentations and taking part in the discussions.
- (d) The poster session aiming at gaining publicity for ICID activities.

11. The TF recommended that ICID should follow up and further contribute to the issues discussed in the above sessions and events by developing linkages within sector and with other sectors. In addition, various National Committees and its members organized and participated in the various other events at the WWF7.

TF-WWF7 Minutes Item 3: Closure report of the task force

12. The TF has completed its mandate in 2015 by reporting on ICID contributions to WWF7 and also presenting a Roadmap for Implementation. A Synthesis Report of ICID inputs to WWF7 is being prepared as an outcome of the TF. The Chair presented a closure report during the meeting showing his positive appraisal of the result of objectives and schemes presented in the first Task Force meeting. It was recommended to close the Task Force, in view of successfully completing its mandate and tasks assigned.

TF-WWF7 Minutes Item 4: New mandate for TF-WWF8

13. In order continue the TF with new mandate and evolve a strategy for Implementation Roadmap, the Chair presented the draft mandate for the new TF-WWF8 during the meeting in which an additional role to follow up the Implementation Roadmap (IR) for ICID was committed.

14. Regarding the draft mandate, various views and opinions were expressed. Dr. Yamaoka proposed that in order to continuously deal with issues on World Water Forums and to get ICID more involved in activities carried out in World Water Council (WWC), a new permanent workbody should be established, instead of setting up a new Task Force same as the previous ones. SG Avinash Tyagi expressed his idea of setting up a new working group for monitoring every ICID activities in which a special team, to manage WWF related business, will be formed. President Dr. Nairizi pointed out the importance of ICID involvement in WWC activities and necessity of establishing a workbody to monitor the involvement of ICID. PH Prof. Schultz recommended to add a new item to the mandate i.e. to organize activities to promote ICID visibility in World Water Council.

15. The mandate of the TF-WWF8, therefore will be:

- (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 organize activities to promote ICID visibility in World Water Council.

16. The TF recommended formation of a new workbody in the form that the valuable views and opinions will be properly addressed. The meeting ended with thanks to the Chair



**Minutes of the 6th Meeting of the
WORKING GROUP ON WATER FOR BIO-ENERGY AND FOOD (WG-BIO-ENERGY)
14 October 2015, 11:00-12:30 hours
Montpellier, France**

Strategy Theme: Basin

Year of Establishment: 2010

Completion of the Mandate: 2015

Mandate: Evolve "ICID's position on Water for Bio-Energy and Food".

Members Present: (1) Mr. Laurie C. Tollefson (Canada, 2010); (2) Dr. Fuqiang Tian (China, 2012); and (3) Er. Avinash C. Tyagi, Secretary General represented by Er. Harish K. Varma, Executive Director, ICID Central Office, New Delhi, India.

Observers: (i) Mr. André Roux (South Africa); (ii) Mr. Mortaza Yazdkhasti (Iran); and (iii) Mr. Bassam Hayek (Jordan).

WG-BIO-ENERGY Minutes Item 1: Action Taken Report by Chair

1. The Chairman presented and discussed actions taken on the decisions made during the last meeting held in Gwangju (2014), South Korea.

WG-BIO-ENERGY Minutes Item 2: Review of membership of the Working Group

2. No new nominations were received for the Working Group. However, Mr. Mortaza Yazdkhasti (Iran) who attended the meeting was accepted as provisional member. In addition, Mr. Bassam Hayek (Jordan) also shown his interest to contribute in the activities of WG. Since Jordan is not an active member of ICID. He has been accepted as observer of the WG.

3. They would be accepted as member once nominations are received officially from their respective National Committees. WG Chair requested Mr. André Roux (South Africa) to become a member of the WG which he accepted subject to submission of his nomination by South African National Committee of ICID (SANCID).

4. VP Laurie C. Tollefson (Canada), Chairman of the WG stepped down from the chairmanship of WG-BIO-ENERGY. The WG elected Dr. Fuqiang Tian (China) as the new Chair of the WG. The Group thanked Mr. Tollefson for his excellent support and very useful input provided to the various activities of the group during his tenure. The members of the group requested him to continue to provide guidance to the activities of the WG and share his expertise and valuable experience with this WG, which he gladly accepted. The membership status of the WG-BIO-ENERGY is at **Annex 6 (page 49)**.

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

5. The Chairman presented a Technical report on 'Water for Bio-Energy' along with the corresponding country papers as case studies to the members of the group. After deliberation group decided to bring an out e-publication and place report on WG web site after PCTA approval. The group also requested Central Office to explore possibility of bringing out hard copy publication of the report. Based on the recommendation of WG, PCTA approved technical report of the group which would be reviewed once again by the WG before editing it and publishing on the ICID website.

WG-BIO-ENERGY Minutes Item 4: Closure report and revised mandate of the WG

6. Mr. Laurie Tollefson, Chairman of the WG will develop a closure report of the WG based on the mandate, activities undertaken and achievements, which will be finalized after review by the WG members / National Committees. WG discussed draft scoping document developed by Dr. Fuqiang Tian (China) and suggested to circulate the scoping document to the member countries after its approval by PCTA to see if there is interest of National Committees in participating in the activities of the group. WG further suggested that if there is not sufficient interest from the member countries then the group be closed. Meeting closed with thanks to the Chair.



**Minutes of the 10th Meeting of the
WORKING GROUP ON GLOBAL CLIMATE CHANGE AND
AGRICULTURAL WATER MANAGEMENT (WG-CLIMATE)
14 October 2015, 14.00-15.30 hours
Montpellier, France
Strategy Theme: Basin**

Year of Establishment: 2005

Completion of the Mandate: 2015

Mandate: (i) To share the information about future prediction of the global and regional climate change and climate variability; (ii) To explore and analyze the implications of climate change and climate variability for agricultural water management including irrigation, drainage, and flood control; (iii) To promote archiving useful information and case studies on climate change for practical use in improved impact assessment and adaptation development; (iv) 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; (v) To join the international dialogue on Climate change and water management.

Members Present: (1) Dr. Tsugihiko Watanabe, Chairman (Japan); (2) Dr. Ray Shyan Wu, Vice Chairman (Chinese Taipei) represented by Dr. Jan Ming-Young; (3) Dr. Tian Fuqiang, Secretary (China); (4) Prof. Sue Walker (South Africa) represented by Dr. Sylvester Mpandeli; and (5) Prof. Dr. Choi, Jin-Yong (Korea, Rep. of).

Member Honorable Present: President Dr. Saeed Nairizi (Iran).

Observers: (i) Ms. Kathleen Heuvel (Australia); (ii) Dr. Guy Jobbins (UK); (iii) Mr. Michael Davidson (USA); (iv) Mr. Mika Turunen (Finland); (v) Mr. Liao Wen-Yi (Taiwan); (vi) Mr. Lo Ying-Chien (Taiwan); (vii) Mr. Hsu-Nan San (Taiwan); (viii) Mr. Lin Yung-Sheng (Taiwan); (ix) Ms. Huang Hui Mei (Taiwan); (x) Ms. Chi Kuei Lan (Taiwan); (xi) Mr. Tsai Tsung-Hsun (Taiwan); (xii) Dr. Waleed Hassan (Egypt); (xiii) Mr. Arthon Suttigarn (Thailand); (xiv) Dr. Nozar Ghahreman (Iran); (xv) Mr. Warren Helgason (Canada); (xvi) Dr. Janin Jean-Louis (France).

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

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

1. The Chair apprised members of the actions taken according to the decisions of the working group at its last meeting held at Gwangju including the preparation of the scoping document for new working group and presented the closure report.

WG-CLIMATE Minutes Item 2: Review of membership

2. Six nominations were received from the National Committees of Iran, Egypt, USA, UK, Finland, and India for the membership of the new WG. With their presence, the following five persons were accepted as members' viz. Dr. Nozar Ghahreman of Iran, Dr. Waleed Hassan M. Abou El Hassan of Egypt, Mr. Michael Davidson of USA, Dr. Guy Jobbins of UK, and Mr. Mika Turunen of Finland. Dr. S.K. Deshmukh- nominated by the Direct Member, Jain Irrigation System Limited (JISL) was provisionally accepted due to his absence. According to the decision of the last meeting, the membership of Dr. Tian Fuqiang of China was confirmed with the receipt of official nomination of the Chinese National Committee (CNCID) in July 2015, as replacement of Dr. Heping HU.

3. As there were neither any contributions nor any correspondence from Mr. Riaz Ahmad Khan (Pakistan), Mr. Mehmet Sait Tahmiscioglu (Turkey), Prof. Sue Walker (South Africa), and Dr. Roestam Sjarief (Indonesia) to the working group during last two year, in accordance with ICID By-law 3.6, the Chair recommends discontinuation of their membership. Membership status is given in **Annex 6 (page 49)**.

WG-CLIMATE Minutes Item 3: Global Framework for Climate Services

4. WG members noted that the second Climate Services User Forums (CSUFs) for Water Sector in South Asia was jointly organized by ICID and WMO at Dhaka, Bangladesh in April 2015 which identified its mission of the future activities in the South Asian region as to support improving agriculture practices and improving reservoir operations through better use of climate information and services already available and leveraging the global information through the regional arrangements. The working group recognized the importance of the collaboration

with WMO and agreed to strengthen partnership and exchange of information and also to organize the next-stage opportunities for further collaboration. WG also thanked WMO for supporting activities of the WG.

WG-CLIMATE Minutes Item 4: Follow-up on the outcome of the Congress Q.58

5. Dr. Watanabe, the chair of the WG who acted as the General Rapporteur for Question 58 of the 22nd ICID Congress held at Gwangju in 2014 “How irrigation and drainage play an important role in climate change adaptation” apprised members of the main points and outcome of the discussions held during the congress. Based on the follow-up on the outcomes of the Congress Q.58 and the workshop in the First World Irrigation Forum (WIF1) in 2013 in Turkey, the working group agreed to co-organize the Workshop on Climate Change with the Organizing Committee at the Second World Irrigation Forum (WIF2) in 2016 in Chiang Mai, Thailand. Dr. Arthon Suttigarn of the THAICID Secretariat accepted the proposal with the suggestion that the details on organization will be determined by the WG and the THAICID and presented to ITAC for WIF2 for concurrence.

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

6. The group noted the efforts of the ICID Central Office in updating Multilingual Technical Dictionary (MTD) and set up a task team led by Dr. Waleed Hassan M. Abou El Hassan (Egypt) to update the MTD on behalf of the WG.

WG-CLIMATE Minutes Item 6: Website of the Working Group

7. The secretary of working group, Dr. Tian Fuqiang, introduced the function of the website of WG-CLIMATE <http://www.icid.org/wg_climate.html>. Members were requested to access the refreshed website and provide their comments/suggestions along with some relevant documents, links etc. for its posting on the group’s website.

WG-CLIMATE Minutes Item 7: Closure report and revised mandate of the WG

8. The chair presented the closure report for the previous tenure of the working group and the revised scoping document for the reconstituted WG with new mandate prepared by the core members. The working group discussed and recommended new mandate of the WG for coming six years as follows:

- (a) To share the information about prediction of the global and regional climate change and climate variability,
- (b) To explore and analyze the implications of climate change and climate variability for agricultural water management including irrigation, drainage, and flood control,
- (c) To promote archiving useful information and case studies on climate change for practical use in improved impact assessment and adaptation development.
- (d) To enhance discussion on climate change and water management at national and regional scales among the stakeholders including academicians, practitioners, decision makers, media as well as farmers and water users in a region, and
- (e) To join the international dialogue on Climate change and water management.

WG-CLIMATE Minutes Item 8: Any other business

9. The new members made short presentations about their activity plan, R&D in their member country and other relevant topics.



**Minutes of the 7th Meeting of the
WORKING GROUP ON ENVIRONMENT (WG-ENV)
14 October 2015, 14.00-15.30 hours
Montpellier, France
Strategy Theme: Basin**

Year of Establishment: 2008

Completion of the Mandate: 2015

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

Members Present: (1) Dr. Sylvain Perret, Chairman, 2011 (France); (2) Prof. N. Hachó, Vice Chairman, 2011 (Japan); (3) Dr. Michael van der Laan, Secretary (South Africa); (4) Dr. Fuqiang Tian (China); (5) Ms. Seija Virtanen (Finland); (6) Dr. Choi, Joong-Dae (Korea); (7) Mr. V.C. Ballard (Australia); (8) Prof. Charlotte de Fraiture (Netherlands); (9) Dr. Aynur Fayrap (Turkey); (10) Ir. Mohd Azmi Ismail (Malaysia).

Member Honorable Present: PH Peter Lee (UK)

Observer: Dr Young Kim (Korea)

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

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

1. Chair welcomed everyone to the meeting and presented WG activities over past years. Chair also presented a summary report regarding actions taken and decisions made following the last meeting held at Gwangju, Korea (2014). Although the WG was reaching the end of its tenure in September 2014, it was requested by members and accepted by IEC that the WG's tenure would be extended by one year to prepare a scoping document outlining proposed activities of the WG for period 2016-2021.
2. The preparation of LCA technical document is well underway. ICID Central Office received it positively and made several relevant comments and suggestions towards designing a final document as a stand-alone book. Scientific editors of the book (WG-ENV Chair, Vice Chair and Secretary) are currently busy finalizing the different chapters (see item 4).
3. Another key activity had been the organization of the International Workshop on "Ecosystem services from irrigation and drainage systems", held on October 13 at Montpellier in France.
4. Finally, Chair mentioned that a major challenge remains the inactivity of members between the two annual meetings. Two web-based meetings were held over the past year and were very successful and these will continue to ensure improved member participation in the WG's activities.

WG-ENV Minutes Item 2: Membership of the working group

5. The admission of new members or discontinuation of membership in the group was largely dealt with by Chair in consultation with Vice Chair, Secretary and ICID Central Office prior to the physical meeting through emails/web conference.
6. During the WebEx meeting held on 19 March 2015, the nominations of Dr. Muhammad Basharat Chaudhry (Pakistan) and Dr. Fuqiang Tian (China) were discussed. Since then, the Netherlands National Committee (NETHCID) nominated Prof. Charlotte de Fraiture, and a nomination for Mr. Mohammad Samiul Ahsan Talucder (Direct Member, Bangladesh) has also been received. Furthermore, the Finland National Committee (FINCID) has nominated Ms. Seija Virtanen in place of Mr. Osmo Purhonen who was thanked in his absence for his long standing involvement in the WG.
7. Despite Dr. Chaudhry not being physically present, he has interacted with Chair via email and attended a WebEx meeting and has been accepted as a member on these grounds. Prof. de Fraiture has been attending WG-ENV meeting in past years with keen interest. Her nomination is accepted. Mr. Talucder was accepted as 'Provisional Member' for one year. His membership will be regulated subject to his active contribution to the activities of the WG. A decision was made to welcome all these nominees into the group.

8. Chair mentioned that the WG Office Bearers (OBs) have been in their role for five years now, and indicated that the opportunity now exists for others to take over. Chair indicated that the current OBs are willing to serve another year, but a transition plan should be put in place. Candidates are invited to communicate with OBs on the subject. However, elections should take place in 2016 at Chiang Mai with or without nominees, in order to renew WG-ENV bureau, wholly or partly.

WG-ENV Minutes Item 3: WebEx meeting of the group

9. The WG organized its first ever WebEx meeting on 19 March 2015 wherein ten members participated and discussed various activities of the group viz. membership, publication of WG - document on LCA, preparation of scoping document for new WG mandate, contributions to the international workshop, website updating etc. A second WebEx meeting was organized on 17 September 2015, which was attended by fewer members but was still a very useful exercise just prior to main meeting in October 2015. A decision was made to continue with the WebEx meetings over the next year, aiming at having a short agenda with one or two key points and taking no longer than an hour or so for the meeting.

WG-ENV Minutes Item 4: Environmental aspects of irrigation and drainage projects: Management of a sustainable environment (maximizing positive and minimizing adverse effects of irrigation and drainage systems)

10. Chair previously circulated the draft report on “Assessing the environmental impacts and the sustainability of irrigation and drainage systems: the potential contribution of Life Cycle Analysis” to all members and invited their comments and/or contributions. The draft report is authored by Chairperson, Vice-Chairperson, Secretary, and Dr Young Kim from Korea.

11. Chair indicated that the document on Life Cycle Assessment (LCA), a compilation of papers, remains under preparation. Chair sent the first draft to ICID at the beginning of the year, and they have requested that it rather be formatted to look like a book, including a table of contents, tables or figures, reference list etc. Dr Kim, Dr van der Laan and Chair are currently in the process of finalizing the document. Chair suggested that by end-2015/early-2016, the document would be finalized.

WG-ENV Minutes Item 5: Publications of the working group

12. Van der Laan et al. published a paper on LCA in *Irrigation and Drainage* and can be considered a WG output for the last year. Chair mentioned that this paper has created interest and it proposes the use of LCA to identify methods to improve management practices, which has not been a traditional function of LCA.

13. Prof Fraiture (the Netherlands) asked what will happen with the proposed book (Item 4) and where it will be published. Chair responded that there may be reluctance by ICID to continue publishing hard copies as it is not economical, and that the WG would have to wait for a final answer from ICID. Chair commented that knowledge dissemination was of primary importance, so a soft copy made available on the WG website may be the best way to publish this compilation of research, perhaps by end of 2015/ early 2016.

WG-ENV Minutes Item 6: Tenure and future of the working group

14. Chair indicated that the scoping document has now been shared with all WG members. The main issues have been discussed at the previous meeting, and it was broadly agreed on what would be included in the new mandate. Chair highlighted key elements from the mandate. It was suggested that irrigation return flows and environmental flows be dropped as a core topic due to the amount of attention that has already been given to this issue.

15. Chair proposed a roundtable/workshop for the next ICID/WG-ENV meeting on what tools (LCA and others) different member countries are using to assess the environmental impact of irrigation and drainage systems. There were sporadic demands for the WG to look into the relationship between irrigation and drainage systems and human health. An exercise to search for relevant information and its circulation among members has now been completed

16. For the new mandate, the background questions to be addressed include:

- (a) What are the positive amenities, services, goods, etc. provided by irrigation and drainage systems? How can those be better characterized, quantified, and ultimately used in policy making, and in agricultural and rural development planning? What are the existing concepts and tools? These questions may be addressed through approaches related to ecosystem services and multi-functionality concepts (RF, EFR are to be included into this sub theme)

- (b) What are the negative environmental impacts of irrigation and drainage systems? What are the existing frameworks available to quantify such impacts? These questions may be addressed through environmental impact assessment approaches, such as (but not limited to) LCA
- (c) What are the negative social and economic impacts of irrigation and drainage systems? What are the existing frameworks available to quantify such impacts? These questions may be addressed through information sharing and dissemination about recent evolutions regarding social LCA or CSR approaches applied to agriculture.
- (d) How could irrigation and drainage systems and local regions ('territories') be better addressed as key levels for policy-making, and action with regards to minimizing negative impacts and maximizing positive services, beyond the farm level? How can the different operators, the economic, institutional, and social agents, who act at regional level, be better involved? These questions may be addressed through information sharing and dissemination about recent evolutions regarding regional approaches to agricultural and rural sustainability (regional LCA, tools from industrial ecology etc.)

17. Prof Fraiture queried what the difference was between Point 3 and 4, and indicated that the latter point was clearer. Dr van der Laan asked if the WG-ENV has the skills to address the 'policy-making' related issues, and also asked whether the term 'sustainable intensification' should be included to make the work more relevant.

18. Dr Peter Lee commented that the new mandate was broadly geographical and about tools. He mentioned that people do not appreciate positive impacts of irrigation and drainage systems as well as the multiple uses, for example, the use of irrigations canals for transport of produce to market. Dr Lee further commented that the mandate was in many ways picking up on some of the tasks proposed by a previous WG, but in a more vigorous way. Dr Lee suggested that it might be worthwhile to add a few words from the scope to the title of the WG, for example, 'ecological', 'socio-economic', and/or 'cultural'.

19. Chair responded with clarifications and also mentioned that the mandate will be slightly re-phrased based on comments received in this meeting, re-circulated and be fully accepted by WG members without delay. He insisted that the draft had been circulated on several occasions already, and should be finalized with no more delays, i.e. preferably by end of 2015.

20. Chair also submitted the re-phrased mandate for WG-ENV, as proposed into the draft scoping document :

- (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.

21. There was general agreement on the phrasing, yet Chair will circulate the draft again, for final approval by all members.

WG-ENV Minutes Item 7: Updating Multilingual Technical Dictionary (MTD)

22. Chair reminded the WG that ICID plans to bring out an online version of the MTD and make it available through the ICID website. Chair proposed that the WG-ENV will await further instructions from the Central Office and assist where required.

WG-ENV Minutes Item 8: Website of working group

23. Members were once again requested to share information with other members via the WG-ENV website.

WG-ENV Minutes Item 9: Summary of activities, closure report and revised mandate of the WG

24. Chair indicated that this has already been completed as part of the new scoping document, in which a summary of previous activities was captured as discussed in Item 6 regarding the new mandate.

WG-ENV Minutes Item 10: “International Workshop on Ecosystem Services and multi-functionality of irrigation and drainage systems”

25. The International Workshop on ‘Ecosystem Services and multi-functionality of irrigation and drainage systems’ was a great success, and confirmed that the WG is moving in the right direction by including this aspect into its new mandate. The presentations will be placed on the website, and Chair suggested that the WG could assist the authors with the publication of the work presented. Prof Fraiture commented that the work presented could make a good journal special issue. Chair asked Dr Damien Jourdain (France) and Dr Sylvie Morardet (France), two of the workshop contributors, to assist him in preparation of a short article on ecosystem services related to irrigation and drainage systems, to be submitted to ICID News for its publication.

WG-ENV Minutes Item 11: Any other business

26. The meeting ended with thanks to the Chair.



**Minutes of the 18th Meeting of the
WORKING GROUP ON HISTORY OF IRRIGATION, DRAINAGE AND
FLOOD CONTROL (WG-HIST)
14 October 2015, 14.00-15.30 hours
Montpellier, France**

Strategy Theme: Knowledge

Year of Establishment: 1998

Completion of the Mandate: 2016

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

Members present: (1) Dr. Kamran Emami, Chairman (Iran, 2009); (2) Dr. Bert Toussaint (The Netherlands, 2005); (3) VPH Dr. Hafied Gany (Indonesia, 2005); (4) VP Dr. Laszlo Hayde (Hungary, 2001); (5) Prof. N. Hatcho (Japan, 1996); (6) Mrs. Xuming Tan (China), (7) Mr. Charles Abernethy (UK); (8) VPH Chaiwat Prechawit (Thailand).

Member Honorable Present: VPH Dr. Gerhard Backeberg (South Africa).

Observers: (i) Mr. Ahmad Abubakar (Nigeria); (ii) Mr. Giacomo Teruggi (WMO); (iii) Mr. Gwo-Hsing Yu (Taiwan); (iv) Mr. Li Yumpeng (China); (v) Mr. Adnan Bin Moho Nor (Malaysia).

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

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

1. The Chairman of the WG presented the report on the follow up actions on the various decisions / proposals made at its last meeting held at Gwangju, Korea (2014).

WG-HIST Minutes Item 2: Review of membership of the working group

2. The Pakistan National Committee (PANCID) has nominated Prof. Dr. Abdul Shakir for the membership of the working group. However, as Prof. Shakir was not present at the meeting, his nomination was accepted as 'Provisional Member' for one year. VPH Dr. Gerhard Backeberg (South Africa), a well-known figure in ICID, offered himself to be a member in the WG. His membership is accepted as provisionally by the WG. However, Dr. Backeberg will have South African National Committee (SANCID) send his formal nomination shortly. Membership status is given in **Annex 6 (page 49)**.

WG-HIST Minutes Item 3: Task Team on Historical Irrigation Structures (HIS)

3. To take the functioning of the WG to another level, ICID initiated recognizing the historical irrigation and/or drainage structures as "Heritage Irrigation Structures" in 2014. Twenty seven such structures from around the world, so far, have been recognized as "Heritage Irrigation Structures" and included in the ICID Register at http://www.icid.org/icid_his.html. Members of the WG are encouraged to go through the HIS scheme and encourage NC's and others to submit their nominations on regular basis.

WG-HIST Minutes Item 4: Publication on "Historical Water Sustainability"

4. The Chair Dr. Kamran Emami informed the WG that so far 15 chapters have been received. A chapter from Nigeria titled "Historical overview of the development and management of public irrigation schemes in Nigeria" is expected by end of the year. Most chapters have been reviewed by Dr. Emami. Dr. Emami expected the review process to take another three months. Dr. Emami informed the WG that the tentative support from the Khuzestan Water and Power Authority (KWPA) is available to publish the book in Iran. Dr. Emami will discuss with the Central Office whether ICID can provide editorial support together with options for funding the publication of the book.

WG-HIST Minutes Item 5: International Workshop on ‘History of water crisis, old and recent issues’, 13 October 2015, Montpellier

5. The Chair presented a brief report on the International Workshop as above wherein 60 professionals participated and contributed good papers and presentations. Looking at the success of this workshop, the WG proposes to organize a similar workshop on ‘World Water System Heritage’ during the WIF2 in 2016. The Chair will circulate the proposal on the workshop before end of the year.

WG-HIST Minutes Item 6: Closure report and revised mandate of the WG

6. Since the WG is completing its mandate in 2016, the Chair will prepare a closure report giving brief description as to how its intended objectives and mandate was achieved, including conclusion, recommendations and way forward. Further, in order to continue the WG with a new mandate, the chair would also be presenting the Scoping Document (SD) for the new WG for onward consideration by PCTA/IEC.

WG-HIST Minutes Item 7: Any other business

7. Dr. Toussaint circulated a copy of the recently published book “Two Centuries of Experience in Water Resources Management, A Dutch-U.S. Retrospective.” This book was a result of cooperation between the Dutch Rijkswaterstaat and the U.S. Army Corps of Engineers and it presents a broad comparative perspective on the development of water resources management in both countries. Free copies are available at the Rijkswaterstaat office in Utrecht and members can get a copy by sending an email to: bert.toussaint@rws.nl. The meeting ended with thanks to the Chair.



**Minutes of the 1st Meeting of the
WORKING GROUP ON MODERNIZATION AND REVITALIZATION OF
IRRIGATION SCHEMES (WG-M&R)
14 October 2015, 14.00-15.30 hours
Montpellier, France**

Strategy Theme: Schemes

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) Dr. Dong Bin (China); (2) Mr. Vyacheslav Rozhon (Ukraine); (3) Mr. Mehrzad Ehsani (Iran); (4) Ir. Eko Subekti (Indonesia); (5) ICID Central Office represented by Harish K. Varma.

Member Honorable Present: (1) PH Prof. Dr. Bart Schultz (The Netherlands); and (2) VPH Shinsuke Ota (Japan).

Observers: (i) Dr. Yohei Sato (Japan); (ii) Mr. Bir Singh Dhami (Nepal); (iii) Engr. Muhammad Sani Bala (Nigeria); (iv) Mr. Alan Kendall Clark (UK); (v) Mr. Ian Makin (UK); (vi) Dr. Kwang-Sik Yoon (Korea, Rep. of); (vii) Mr. Mohd Yazid bin Abdullah (Malaysia); (viii) Ms. Meral Çiçek (Turkey); (ix) Mr. Thierry Facon (FAO); (x) Masao Miyazaki (Japan); (xi) Puleng Mofokeng (South Africa); (xii) Mohd Adnan Mohd Nor (Malaysia); (xiii) Suman Sijapati (Nepal); (xiv) Iman Agus (Indonesia); (xv) Ms. Mary Jean Gabriel (South Africa); (xvi) Dr. Katsuyuki Shimizu (Japan); (xvii) Iwan Nursyirwan (Indonesia); (xviii) Bistok Simanjuntak (Indonesia); (xix) Ismail Widadi (Indonesia); (xx) Ir. Mat Hussin Ghani (Malaysia); (xxi) Sen El-Jibrili Masaus (Nigeria); (xxii) Mohammed G. Magaji (Nigeria); (xxiii) Dickson Ahagbuje (Nigeria); (xxiv) Engr. Peter Y. Manjuk (Nigeria); (xxv) Murtala Dalhat (Nigeria); (xxvi) Kwang Sik Yoon (Korea); (xxvii) Mukhlis Zainol Abidin (Malaysia); (xxviii) Arnaud Cauchois (France); (xxix) Kenneth S. Sunmonu (Nigeria).

WG-M&R Minutes Item 1: Introduction of the new Working Group

1. WG held its first meeting on 14 October 2015. PH Bart Schultz, Convener of the WG apprised the members about the scope, outcome/outputs expected from the WG as provided in the Scoping Document (Annex 1 of the Agenda) and activities undertaken during last one year. PH Shultz also informed members that keeping in view the importance of modernization of irrigation schemes in light of its role in support of global food production, the Working Group is established with initial term of six years with effect from 2015 and requested NCs to nominate experts dealing with the concerned topics to contribute to the activities of the group.

WG-M&R Minutes Item 2: Review of membership of the working group

WG-M&R Minutes Item 2.1: Membership of the group

2. In addition to the members that were already accepted last year, based on the received nominations and participants interest, the WG recommended the following for acceptance by PCTA - Dr. Yohei SATO (Japan); Engr. Muhammad Sani Bala (Nigeria); Mr. Ian Makin (United Kingdom); Dr. Kwang-Sik Yoon (Republic of Korea); Mr. Mohd Yazid bin Abdullah (Malaysia); Ms. Meral Çiçek (Turkey); Mr. Puleng Mofokeng (South Africa); Mr. Bir Singh Dhami – Young Professional (Nepal) as Members and Brian T. Wahlin as Provisional Member while Mr. Alan Kendall Clark (UK) and Ms. Robina Wahaj (FAO) as Permanent Observers. Membership status is given in **Annex 6 (page 49)**.

WG-M&R Minutes Item 2.2: Selection of new Chair, Vice Chair and Secretary

The group elected the following persons for Chair, Vice Chair and Secretary of the WG: Chair : Mr. Ian Makin (United Kingdom); Vice-Chair: Dr. Dong Bin (China); and Secretary: Engr. Muhammad Sani Bala (Nigeria).

WG-M&R Minutes Item 3: Work plan of the group

3. A presentation was made by VPH Shinsuke Ota (Japan) on ICID's involvement in the 7th World Water Forum (WWF7) and the follow-up on it, including the preparation of ICID's inputs to WWF8. Several members agreed that contributions by ICID refer to the scope of work of WG-M&R. In the light of ICID commitment during WWF7, WG discussed action points from session 2.1.3 of WWF (Annex) for suitable incorporation in its work plan and refined/updated the work plan as presented in the scoping document.

4. Members noted and welcomed the interest shown by Mr. Ali Riza Diniz, Director General, Directorate of State Hydraulic Works (DSI) and Chairman of TUCID in preparation of a paper on the status of modernization in countries around the world and also their support in development of guidelines for the design and maintenance of low pressure piped networks as Turkey being one of the leaders in this field. Member from Turkey agreed to work for this and WG agreed to establish a small group to work out this initiative.

WG-M&R Minutes Item 4: Presentation by the working group members

5. Three brief presentations (available on website) were made during WG meeting: FAO work with respect to modernization and revitalisation of irrigation schemes by Thierry Facon; Definition of modernization by Ian Makin, and a Brief overview of modernization aspects by Harish K Varma.

WG-M&R Minutes Item 5: Action points from Session 2.1.3 of WWF7 (Korea)

6. WG noted that ICID was identified as a leading member for number of action points related to focus area 2.1.e-Modernization of irrigation schemes as ICID is committed to work towards modernization and revitalization of irrigation schemes by 2030. WG also considered and agreed to organize a symposium on irrigation modernization in collaboration with other international organizations in November 2016, on the occasion of 2nd World Irrigation Forum (WIF) in Thailand.

7. As agreed during WWF7, WG also deliberated and included in its work plan to finalise a report on "Modernization irrigation/drainage for a new Green Revolution" to be delivered as input to the 8th WWF in Brasilia in 2018 as an outcome of 23rd Congress at Mexico with the same theme. WG also considered to formulate an appeal on needs for modernization of irrigation system to policy-makers and decision-makers in governments, private sectors and international financial institutions. The action points arising from WWF7 and the proposals for their implementation are listed in **Annex**.

WG-M&R Minutes Item 6: Exchange of information, knowledge, and networking

8. 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 information, papers, presentation made on topics related to scope of work of the WG to the ICID Central Office for uploading on the web site of the WG. Members assured their active participation and cooperation in activities of the WG and to provide material for uploading on web site. The meeting ended with thanks to the Convener.



Annex [Appendix XXIV, Item 5]

ACTIONS TO BE IMPLEMENTED

Action	Timeline	Coordinator	Implementation
ICID 66 th IEC, establish Task Force on "Monitoring actions after WWF7" appoint coordinator for forwarding actions on irrigation modernization and develop inputs to WWF8	10.2015 - 03.2018	ICID POs from IOs	Task Force will be established in Montpellier
November 2016, WIF2 and 67 th IEC in Thailand, symposium on irrigation modernization in collaboration with other sectors and IOs	11.2016	ICID POs from IOs	In relation to Sub-theme 1. Key issues of irrigation and drainage in balancing water, food, energy and ecology FAO is planning to host a side event on the topic Irrigation Modernization
October 2017, ICID 23rd Congress and 68th IEC in Mexico, release an appeal on Modernization of irrigation to policy-makers and decision-makers of governments, private sectors and international financial institutions and formulate inputs to WWF8 in 2018	10.2017- 03.2018	ICID POs from IOs	In consultation with MXCID WG-M&R will establish a small group to prepare the appeal
October 2015, ICID 66th IEC, establish WG on "Modernization and revitalization of irrigation schemes" and develop a scoping document	10.2015	ICID POs from IOs	The WG-M&R has been established and had its first meeting at the occasion of the Montpellier meeting
Work together with IOs and other Institutions: FAO, IWMI, ICARDA, ICBA, IFAD, ICOLD, IHA, ADB, AFDB, IADB, WB, WWC and Universities	10.2015- 10.2021	ICID POs from IOs	This item doesn't require a specific action, but has to be taken up in the other actions
November 2016, WIF2 and 67th IEC in Thailand, international workshop on new developments in irrigation modernization technology in collaboration with other sectors	11.2016	ICID POs from IOs	This will be taken up in relation to Topic 1.4. Innovations and extension under new irrigation and drainage performance and services requirements for national water and food security
October 2017, 23rd Congress and 68th IEC in Mexico <ul style="list-style-type: none"> discuss standards and codes of practice associated with irrigation design, installation and evaluation to address socio-economic and environmental effects 	10.2017	ICID POs from IOs	There are already proposals for such an activity by New Zealand and Turkey. In addition Central Office requests young professionals who receive support to provide the standards and codes of practices of their countries. All members of WG-M&R are requested to submit the relevant documents of their countries. WG-M&R will establish a small group consisting of its members to analyse the standards and codes of practices and to come up with guidelines and recommendations
October 2017, 23rd Congress and 68th IEC in Mexico <ul style="list-style-type: none"> disseminate report on Modernization irrigation/drainage for a new Green Revolution including application to American continent 	10.2017	ICID POs from IOs	WG-M&R will establish a small group consisting of some of its members to prepare the report. To a large extent the report can be based on the papers for <i>Question 61: State of knowledge of irrigation techniques and practicalities within given socio-economic settings</i>



**Minutes of the 20th Meeting of the
WORKING GROUP ON USE OF POOR QUALITY WATER FOR
IRRIGATION (WG-PQW)
14 October 2015, 14.00-15.30 hours
Montpellier, France
Strategy Theme: On-Farm**

Year of Establishment: 1995

Completion of the Mandate: 2016

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

Members Present: (1) VPH Dr. Samia El-Guindy, Chair (Egypt); (2) VPH Dr. Karim Shiati (Iran); (3) Prof. Leon van Rensburg (South Africa); (4) Dr. Takanori Nagano (Japan); (5) VP Dr. Ding Kunlun (China).

Member Honorable Present: VP Kadhim Mohsin Ahmed (Iraq)

Observers: (i) Dr. Wenyong Wu (China); (ii) Nassim Ait Mouheb (France).

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

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

1. The Chairperson presented the action taken report of the WG to the participants.

WG-PQW Minutes Item 2: Review of the membership of the working group

2. Dr. S.K. Deshmukh- nominated by the Direct Member, Jain Irrigation System Limited (JISL) was provisionally accepted due to his absence. The group noted that presently nine persons are listed as members and weak attendance during the past meetings has been the cause of concern. In this meeting, only the Chairperson, four members and three observers were present. This year, the group proposed the membership of Mr. Bernard (France) to be discontinued.

WG-PQW Minutes Item 3: Country presentations by members

3. Following four presentations were made:

- (a) "Egyptian Practice and Experience of the Reuse of Non-conventional Water Resources"- Dr. Ashraf El Sayed Ismail(Egypt)
- (b) "75 years of irrigation along the Lower Vaal River and Tributaries in South Africa: Major management interventions and current impacts on natural resources" - Dr. L.D. van Rensburg (South Africa)
- (c) "Wastewater Irrigation (WWI) in China and reuse effects - A case study" - Dr. Wu Wenyong (China)
- (d) "Rural Sewage Treatment System in Japan" - Dr. Takanori Nagano (Japan)

The presentations are made available on the WG website.

WG-PQW Minutes Item 4: Publications of the working group

4. So far, following reports have been submitted:

- (a) "Impact of Irrigation by saline water on soil and crop production" by Dr. Anna Tedeschi (Italy)
- (b) "Impact of tsunami on farmland and the progress of rehabilitation after the great Japan earthquake" by Dr. Takanori Nagano (Japan)

5. Dr. Leon van Rensburg (South Africa) has been requested to submit a report based on his presentation made during the meeting.

WG-PQW Minutes Item 5: Exchange of information (WebEx/video conferencing)

6. The group felt that the number of active members are limited which makes the video conferencing difficult under the current situation. However, WG may try using WebEx facility provided by Central Office to garner participation from the WG members.

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

7. The group requested Central Office to update the working group on the procedure to be followed.

WG-PQW Minutes Item 7: Website of the working group

8. The group reported that they will upload two reports on the website :(1) Feasibility study on the use of brackish water in aquaculture and agriculture; and (2) Use of saline water to irrigated potatoes in a pilot study in Egypt.

WG-PQW Minutes Item 8: Closure report in 2016

9. The group informed that the closure report will be prepared and presented during the next meeting of the WG in 2016. The WG will also prepare a Scoping Document to carry forward the agenda of the WG with a new mandate.

WG-PQW Minutes Item 9: Round table discussion on the reuse of treated sewage water

10. The WG collaborated with the French Organizing Committee in organizing the Roundtable on the reuse of treated waste water. The WG shared and evaluated papers submitted in the round table. The Chairperson presented the outcome of the roundtable in the meeting. The chairperson made two presentations, one at the introduction on: 'Introduction to Wastewater Reuse/ Opportunities, Major Constraints, Reducing Risk and Strategic Approach' and second at the closing session on "Concluding remarks on the presentations and discussions of the RT" (Attached). Also, Dr. Takanori Nagano from JNCID made a presentation on behalf of the WG on the Japanese experience in the waste water treatment. The papers presented at the roundtable are listed in the **Annex** and are available at the WG website.

WG-PQW Minutes Item 10: Any other business

11. The meeting ended with thanks to the Chair.



Annex [Appendix XXVI, Item 9]**Roundtable on “Wastewater Reuse in Agriculture”
13 October 2015, Montpellier****List of Papers Presented**

1. Use of Greywater for Food Production in Homestead Gardens of South Africa - N. Rodda, H.M. Du Plessis and G. Backeberg
2. Groundwater Irrigation for Smallholders in Sub-Saharan Africa – A Synthesis of Current Knowledge to Guide Sustainable Outcomes - Karen G. Villholth
3. Mexican Experiences to Control Groundwater Use in Agriculture - Waldo Ojeda-Bustamante; Juan Manuel González-Camacho; Luis Rendón Pimentel
4. Shall We Trust Local Stakeholders to Manage Groundwaters? - Raphaëlle Lavenus, Sébastien Chazot
5. Effects of Lateral Depth and Water Applied on Transport of E. Coli in Soil and Residuals within Plants and Asparagus Lettuce Production for Drip Irrigation Applying Secondary Sewage Effluent - Jie Wen; Jiusheng Li
6. Biofilm Growth at High Cod and Particle Concentration Levels: Application to the Case of Micro-Irrigation Emitters used for Wastewater Reuse - Souha Gamri; Séverine Tomas; Mohamed Khemira; Nassim Ait
7. Mouheb; Bruno Molle
8. State Regulations in Groundwater Management: They Bark But Do They Bite? - François Molle; Alvar Closas
9. Stakeholders, Multi-Functionality, and Governance: How to Manage Competing Water Uses and Improve Decision-Making Processes in three Southern European Irrigation Systems - Sandra Ricart Casadevall
10. Impact of Treated Waste Water from Food Processing Industries in Agriculture through Drip Irrigation System- Sanjay Patole; Abhijit Joshi; Balkrishna Yadav; Sachin Patil



**Minutes of the 2nd Meeting of the
WORKING GROUP ON SUSTAINABLE DRAINAGE (WG-SDG)
14 October 2015, 14.00-15.30 hours
Montpellier, France
Strategy Theme: Scheme**

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) Dr. Irena Bondarik, Secretary (Russia); (3) Ms. Nurgul Uzupek (Turkey); (4) Mr. Mati Tonismae (Estonia); (5) Mr. Ardavan Azari (Iran); (6) Ms. Helena Aijo (Finland); (7) Dr. Ashraf El Sayed Ismail (Egypt); (8) Ms. Wang Shaoli (China); (9) Engr. Mohd Anuar Musardar bin Yusoff (Malaysia).

Member Honorable Present: VPH Mohamed Hassan Amer (Egypt)

Observers: (i) Shahin Koohbezan (Iran); (ii) Mr. Lui Topalhasan (Turkey); (iii) Honnes Puo (Estonia); (iv) Narges Zahrahi (Iran); (v) Reza Khodobokhshi (Iran); (vi) Mr. Shaldozi (Iran); (vii) Dr. Henk Ritzema (Netherlands); (viii) Jeorgryeal Jong (Republic of Korea); (ix) Chao Chang Yang (Taiwan); (x) Chaochur Chien (Taiwan); (xi) Kenichi Uno (Japan); (xii) Dr. Ruey Chy Kao (Taiwan); (xiii) Arash Mahjoabi (Iran); (xiv) Jingwei Wu (China).

WG-SDG Minutes Item 1: Introduction by the Chair

1. WG Chair presented a brief of the working group since its last meeting held at Gwangju and informed that in his view sufficiently long time has been allocated to fulfill mandate of the working group and it is important to make a proper working space in a co-construction process. He stressed need to retrieve information from grey literature in order to seek information on innovation and most performing traditional techniques as well as to identify and create inventory of traditional techniques and statistics on the subject. WG Chairman suggested considering geographical organization of WG activities under the auspices of Vice Chairman. After discussion, the group adopted a system based on both geographical and thematic organization of activities of the WG as indicated below.

- | | |
|--|---|
| • Controlled drainage | Ms Wang and Aijo |
| • Bio drainage, dry drainage, bio saline agriculture | Mr Ardavan Azari |
| • Wetlands | Dr. Bondarik, Mr. Vincent, Dr Asraf El Sayed Ismail |
| • Innovation in Russian speaking countries | Dr Bondarik |

2. WG Chair informed that other themes are potentially covered by other members and he will contact the respective members as they were not present and inform Central Office in due course. Some of the Observers and members of other working groups present at the meeting showed their interest and willingness to contribute to the WG activities. Accordingly WG welcomed their contribution and requested Dr Wu (China) to assist the team on dry drainage and Dr. Wahba (Egypt) to assist the team on controlled drainage group.

WG-SDG Minutes Item 2: Membership of the working group

3. The group recommended acceptance of Dr. Henk Ritzema (The Netherlands) as Member. Mr. Krishna Prasad Rijal - Young Professional (Nepal) was accepted as Provisional Member as he was not present at the meeting. However WG noted that since Mr. Rijal will attain 40 years so he will not be eligible as YP next year and moreover he does not show relevant skill in drainage as is evident from his CV, WG suggested finding a better experienced candidate from Nepal considering drainage as a huge concern in Nepal. Nomination of Mr. Yeolkar – Direct Member, JISL (India) was provisionally accepted as he was not present.

4. WG reviewed membership of Dr. Bhutta and regrets his lack of contribution. However WG agreed to continue his membership of the WG for a year considering his competences in the subject and past contributions and suggested ICID Central Office to contact him requesting for his contributions otherwise his membership would be discontinued in next meeting. WG also discussed and reviewed membership status of Prof. Kyung-Sook Choi, the representative of KCID, accepted as Provisional Member in 2015 meeting, and agreed for her continuation as Provisional Member due to her absence or non-representation in the meeting. WG suggested to review her membership at next meeting in 2016 and requested ICID Central Office to follow up with KCID. In consultation with Dr Bondarik (Russia) and keeping in view her work load, WG nominated Ms Nurgul Uzucek (Turkey) as a new Secretary of the WG in place of Dr. Bondarik. Membership status is given in **Annex 6 (page 49)**.

WG-SDG Minutes Item 3: Development of a rolling work-plan

5. The rolling plan had not been discussed and would be updated by the chair. The group proposed that one of the main goals is to successfully organize the 13th International Drainage Workshop (IDW).

WG-SDG Minutes Item 4: Report on Contribution to the website DRAINLINE/ LinkedIn Agricultural Drainage Group

6. WG Chair requested members to review contents of the WG webpage and provide their suggestions to him as well as ICID CO. Members were also requested to share relevant information /documents etc. for uploading on website.

WG-SDG Minutes Item 5: International Workshop on “Future of drainage under environmental challenges and emerging technologies”, October 2015, Montpellier

7. International Workshop on Future of drainage under environmental challenges and emerging technologies was held on 13 October 2015 at Montpellier wherein 10 papers were presented on subject related to treatment of traditional drainage techniques, wetlands, technology, salinity management under deficit irrigation, drainage needs etc. Some of the highlights of the workshop were – presenters showed dramatic impact of irrigation water allocation reduction strategies on the salt balance of the soil and the effluent; drainage (process or structure) is key factor of sustainability; presenters showed studied related to the link between irrigation, drainage and wetlands and highlighted that next step is to show interactions with biodiversity etc.

WG-SDG Minutes Item 6: Compilation of experiences in bio-drainage and bio-saline agriculture

8. Dr. Gurbachan Singh (India), who could not participate in the meeting, submitted a document titled “Bio-drainage for Management of Waterlogging and Soil Salinity” before the meeting. Since it was not possible to examine the whole document, WG requested ICID Central Office to circulate the document to the members of the WG for their feedback and comments by November end. The group thanked Dr. Gurbachan Singh for his contribution.

WG-SDG Minutes Item 7: Updating database on ‘Drained area in the world’

9. The group noted the continued efforts of members in updation of database on drained area. WG Chair requested members to continuously update database and provide information to Central Office for compilation.

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

10. The group noted about the efforts of Central Office in updating Multilingual Technical Dictionary (MTD) and suggested to establish a Steering Committee for focused attention in the matter with one member per language in charge to manage the revision. WG also suggested that access to MTD should be online free of cost.

WG-SDG Minutes Item 9: 13th International Drainage Workshop, March 2017, Ahvaz City, Iran

11. IRNCID's representative presented a brief report of the 13th International Drainage Workshop (IDW) scheduled to be held in Iran in March 2017. Mr. Ardavan Azari (Iran) described the theme and topics of the workshop and importance of the subject, especially in arid and semi-arid regions. The theme of the workshop will be "Drainage and Environmental Sustainability". WG also conveyed their full support to the organizers for successful organization of the IDW.



**Minutes of the 8th Meeting of the
WORKING GROUP ON WATER AND CROPS (WG-WATER & CROP)
14 October 2015, 14:00-15:30 hours
Montpellier, France
Strategy Theme: On-Farm**

Year of Establishment: 2007

Completion of the Mandate: 2016

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 Dr. Ragab Ragab, Chairman (UK, 2007); (2) VP Laurie C. Tollefson (Canada, 2009); (3) Dr. K. Yella Reddy (India, 2009); and (4) Dr. Marco Arcieri (Italy, 2014).

Observer: (i) Mr. Syaiful Mahdi (Indonesia).

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

WG-W&C Minutes Item 1: Action Taken Report by Chair

1. VPH Dr. Ragab Ragab (UK), Chairman of the WG briefly summarized the actions taken on the decisions made during the last meeting at Gwangju (2014), South Korea.

WG-W&C Minutes Item 2: Review of the membership of the Working Group

2. The nomination of Prof. Dr. Allah Bakhsh (Pakistan) from the Pakistan National Committee on Irrigation and Drainage (PANCID) was accepted as 'Provisional Member' for one year, since he was not present. Dr. Magdi T. Abdelhamid (Egypt) a 'Provisional Member' from 2014 requested the Chair to extend his provisional membership for another year i.e. 2016 which was accepted by the WG.

3. The Indonesian National Committee of ICID (INACID) nominated Ir. Adang Saf Ahmad for the membership of the group and Mr. Syaiful Mahdi also from Indonesia to be an Observer in the WG. The WG accepted Ir. Ahmad as 'Provisional Member' and Mr Syaiful Mahdi as an 'Observer', who was present in the WG meeting. The WG welcomed the new members in the group. Nomination of Mr. Dr. P. Soman (Direct Member) received from M/s. Jain Irrigation Systems Limited, India was accepted as provisional member for one year as he was not present. The membership status of the WG-CROP is at **Annex 6 (page 49)**.

4. On the basis of non-attendance, non-participation, no communication with ICID (ICID by-law 3.5) during the last 2 or more consecutive years, Chair recommended discontinuation of memberships of the following members: VPH Prof. Tai Cheol Kim (Korea); Ms. Jaleh Vaziri (Iran); and Mr. Valery Vladimirovich Kalsky (Russia).

WG-W&C Minutes Item 3: Multi-functionality of water use in paddy (Rice) cultivation

5. The WG decided to bring out a 'Technical Report' by compiling the following contributions: (a) "New Efforts to Preserve the Ifugao Rice Terraces" by Dominador P. Pascua & Leonor P. Fernandez (PNCICID); (b) "Breeding crab or fish in paddy field in China" by Mrs. Gao Hong (CNCID); and (c) "The Role of Irrigation System in Supporting Multi-functionality of Water Use in Paddy Field to Maintain Food, Water and Energy Security" by VP Dr. Ir. Mohammad Basuki Hadimoeljono (INACID). Contributions from Korea, Thailand and Taiwan are awaited. The Chairman apprised the WG members about the importance of bringing out technical publication. The WG members requested to complete the task successfully in the current year.

WG-W&C Minutes Item 4: International Workshop on 'Precision Irrigation for Sustainable Crop Production' at Montpellier, France in October 2015

6. An International Workshop on '*Precision Irrigation for Sustainable Crop Production*' was held in two session on 13 and 14 October 2015 at Montpellier, France. The Chairman apprised the members of the successful conduct and outcomes of the workshop. He informed the members that a total of 25 papers have been presented by the authors and 6 papers were included in the poster session. About 40-50 participants were present in the sessions who actively participated in the discussions which contributed for the success of the workshop. The Chairman indicated that an article (1500 words) on 'Precision Irrigation' would be prepared for ICID News.

WG-W&C Minutes Item 5: Publications of the Working Group

7. The Chairman briefed about the availability of reports on “Crop water models” by VPH Dr. Ragab Ragab (UK); “Multifunctional use of water in paddy” by Prof Kim (Korea) and Dr Koji (Japan); and “Energy crops” by VP Mr. Laurie C. Tollefson (Canada). Dr. K.Y. Reddy (India) and Dr. Graziano Ghinassi (Italy) were requested to contribute and submit their chapters/consolidate reports under the ‘*Efficient use of water in crop production*’ towards publishing the ‘Technical Report’ of the working group. Similarly, Dr. Leon van Rensburg (South Africa) was requested to contribute his chapter on “*Rainfall Harvesting*”. All the reports need to be edited / printed as publication of ICID. The chair indicated that this would be one of the important items for WG during the current year. The Group members approved and agreed to contribute.

WG-W&C Minutes Item 6: Updating Multilingual Technical Dictionary (MTD)

8. The WG discussed the MTD and noted its requirement.

WG-W&C Minutes Item 7: Website of Working Group

9. It was noted by the Group. Members were further requested to submit relevant report / documents for uploading on the WG website.

WG-W&C Minutes Item 8: Any other business

10. The poor attendance of the members of the workbody was discussed. The chairman indicated that some of the WG members have expressed their inability to attend meeting due to high costs involved in registration etc.

11. It was pointed out that a new WG on Water Use Efficiency has similar mandate like WG-CROP and will affect the performance due to overlapping of agenda and topics.

12. The Chairman of the WG indicated that the Group need to contribute for the vision of ICID by organizing an international workshop on ‘Water Food Energy Nexus’ during the 2nd WIF and 67th IEC, from 6-12 November, 2016 at Thailand. The WG endorsed the opinion and unanimously agreed to organize the workshop by contributing papers and inviting experts in the area.

13. The Chair and members of the group unanimously resolved to request for extension of the term of the workbody till 2019.

14. The meeting ended with thanks to the Chair.



**Minutes of the 2nd Meeting of the
SUB-COMMITTEE ON THEMES, TOPICS AND WORK PLANS OF THE
FUTURE ICID EVENTS (SC-TTWF)
15 October 2015, 08.00-09.00 hours
Montpellier, France**

Terms of Reference (ToR): (i) To deliberate and recommend the Themes, Topics and Workplans of future ICID events including Congresses and World Irrigation Forums; (ii) To set out format and technical contents of the Congress and WIFs; (iii) To recommend optimal programme for the Congress to PCTA; (iv) To recommend to PCTA the topics of the two Questions; (v) To review the technical outputs and outcomes and suggest follow ups and (vi) To suggest changes in the composition and ToRs of the sub-committee.

Members: (1) PH Bart Schultz (The Netherlands), Chair; (2) VPH Gerhard Backeberg (South Africa); (3) VP Laurie Tollefson (Canada); (4) VP Huseyin Gundogdu (Turkey); (5) VPH Dr. Ragab Ragab (UK); (6) VPH Chaiwat Prechawit, (THAICID Rep., Host NC of 2nd WIF); (7) Mr. Vason Boonkird, (THAICID, Alternate); (8) Dr. Luis R. Pimentel (President, MXCID, Host NC of 23rd Congress); (9) Dr. Waldo Bustawarte (MXCID, Alternate) and (10) Er. Avinash C Tyagi, Secretary General, ICID (Resource Person).

Sub-Committee Minutes Item 1: ATR on the Minutes of the 1st Meeting of Sub-Committee

1. The Sub-Committee has taken note of the Action Taken Report on the minutes of the 1st meeting of Sub-Committee (**Annex 1**) and found that each item has been covered.

Sub-Committee Minutes Item 2: Membership of the Sub-Committee

2. The Sub-committee proposes that one member and one alternate member of the National Committees that will host an event will become member of this Sub-Committee. Their membership will be completed by the end of the meeting of the SC-THEMES after the event has taken place. In light of this it is recommended that Secretary-General contacts the NCs of Egypt, Iran, Canada and Nepal to nominate a member and an alternate member. These members would especially have to be involved with the scientific/technical part of the event.

Sub-Committee Minutes Item 3: Theme and Topics for future Congresses

3. The Sub-Committee noted the list topics for Themes and Questions covered/decided upto 23rd ICID Congress (**Annex 2**). The Sub-Committee also noted the list of topics for Themes and Sub-Themes covered/decided upto WIF2, together with the Themes for World Water Forums (WWFs) upto 7th WWF (**Annex 3**).

Sub-Committee Minutes Item 3.1: 23rd ICID Congress, Mexico City, 8-14 October 2017

4. The meeting has taken good note of the request of the Council to keep the sub-questions for Congress tentative and to finalize them after consideration by the International Technical Advisory Committee (ITAC) of the Congress so that due consideration can be given. In line with this SC-THEMES proposes to constitute the ITAC for the 23rd Congress, to be composed of:

- Member and alternate member of MEXID;
- Three of the chairs of WGs on most related topics: WG-M&R, WG-IDM, WG-IOA, WG-BIO-ENERGY, WG-CLIMATE, WG-PQW.

5. The detailed scope would have to be prepared at short notice.

Sub-Committee Minutes Item 3.2: 24th ICID Congress, 2020

6. Although the venue for the 24th ICID Congress is yet to be fixed, based on a draft as prepared by Secretary-General the Sub-Committee suggests the following topics for the Main Theme and the Questions for the Congress.

- Main Theme: Innovation and research in agricultural water management to achieve sustainable development goals;
- Question 62: What role can information and communication technology play in travelling the last mile;
- Question 63: What role is played by multi-disciplinary dialogue to achieve sustainable development goals?

Sub-Committee Minutes Item 4: Theme and Sub-Themes for future World Irrigation Forums**Sub-Committee Minutes Item 4.1: 2nd World Irrigation Forum, Chiang Mai, Thailand, 6-12 November 2016**

7. Based on comments received by ITAC, the Sub-Themes and Topics have been updated and were approved by the ISC. The updated Sub-Themes and Topics are already included in the second announcement that was disseminated in Montpellier. The Call for Papers and the Call for Short Communications are ready and will be widely disseminated. THAICID will prepare at short notice a Call for the Exhibition.

Sub-Committee Minutes Item 4.2: 3rd World Irrigation Forum, 2019

8. Although the venue for the 3rd World Irrigation Forum is yet to be fixed, based on a draft as prepared by Secretary-General the Sub-Committee suggests the following topics for the Main Theme and the Sub-Themes:

- Main Theme: Development for water, food and nutrition security in a competitive environment;
- Sub-Theme 1: Enabling policy environment for water, food and energy;
- Sub-Theme 2: Role of civil society and NGOs with focus on farmers and extension facilities;
- Sub-Theme 3: Improving agricultural water productivity with focus on rural transformation.

Sub-Committee Minutes Item 5: Review of formats and technical contents of future ICID Congresses and WIFs

9. Based on the Guiding Principles for choosing the Themes for future ICID events the SC-THEMES recommends the following to PCTA for its consideration and recommendation to IEC for its adoption.

Sub-Committee Minutes Item 5.1: Format and Technical Contents for future Congresses

10. *The target audience.* The target audience for the Congress should essentially be the technical experts, working in the field of irrigation, drainage and flood management from within the ICID community but also other national and international institutions working in research and development on one hand and extension services on the other, who hitherto have not been closely involved with ICID activities.

11. *Objective.* The objective of Congress should be to address questions that require deliberated response from and closer collaboration between experts working in separate specialized fields under different working groups. It should aim at synthesizing the work of different groups, identifying the gaps, and identifying the area of collaboration.

12. *Nature of Topics.* As ICID is the only international professional organization dealing with irrigation and drainage, the Theme for the Congress should be oriented more towards technical topics. It may not be out of place to mention that Irrigation and Drainage is one area where the rapid advancements in the technology have not taken roots in most of the countries. Therefore the Questions to be addressed at the Congress should be able to help bridge the technology gap between the developing and developed members of ICID.

13. *Organization of side events.* Since the Congress questions are of specific but of universal interest, the host NC might like to deliberate on certain local or regional issues. Such topics shall form the subject of a Symposium or a Special Session and would fall within the purview of the Technical Organizing Committee of the Congress. Technical exhibition, specialized workshops or courses for young professionals can also form part of the side events.

14. *Declaration.* The "Congress Declaration" should essentially be the answer to the questions deliberated at the Congress. In exceptional cases where the host organization intends to draw benefit from the deliberation of international experts on a certain topic of the local interest in the form of an outcome, a Statement (called xxxx (city) Statement) can be issued, which essentially should bring out the outcome of the Symposium or the Special Session.

15. The suggested format for future ICID Congresses given at **Annex 3.4A (page 27) and Annex 3.4B (page 28)** has been recommended for adoption.

Sub-Committee Minutes Item 5.2: Format and Technical Contents for future WIFs

16. For WIF, SC-THEMES recommends to have the following features:

17. *Target audience.* All stakeholders, technical and non-technical, engineering or social scientists engaged in various facets of agriculture water management ranging from researchers and policy makers to farmers.

18. *Objective.* The main objective of the World Irrigation Forum is to provide a platform for well-informed dialogue between various actors; understanding various perspectives, motives, capacities and limitations; identifying requirements, synergies and collaborative opportunities; and facilitating mutual understanding and collaboration.

19. *Nature of Topics.* The Themes of the WIF should be of general interest but providing a sequence of steps moving towards water, energy and food security in the changing world.

20. *Organization of side events.* Side events will play an important role in various stakeholders putting across their perspectives on Irrigation and Drainage and using an informal setting for dialogues.

21. *Declaration.* The Forum being just a platform, it may not be advisable to have a declaration, instead a Statement can be issued.

22. The suggested format for future WIFs given at **Annex 4** has been recommended for adoption.

Sub-Committee Minutes Item 5.3: Develop a Standard Format for proposing International Workshops during ICID Annual Meetings

23. The draft of the format prepared in consultation with Chair, Sub-Committee for proposing international workshops during annual ICID meetings, given at **Annex 6** has been proposed for adoption. In addition SC-THEMES proposes that chairs of workshops are requested to prepare a 500 words summary with the key issues of the workshop for publication in ICID news.

Sub-Committee Minutes Item 6: Any Other Business

24. None



Annex 1 (Appendix XXIX, Item 1)

ACTION TAKEN REPORT
First Meeting of Sub-Committee on Themes
15 September 2014, Gwangju, Republic of Korea

Item	PCTA Recommendation	Decision of 65 th IEC	Action Taken
1. Guiding principles for choosing themes for various ICID events.			
	Guiding principles for choosing themes for future ICID events may be adopted.	Accepted the PCTA recommendation as per Resolution IEC-3/65 (Sr. No.5).	Included in the Handbook of Procedures and provided to NCs hosting future ICID events.
2. Theme and Topics for Regional Conference			
	1. Recommended for acceptance of theme and topics for 26 th ERC	Endorsed vide Resolution No.IEC-3/65 (Sr. No.6)	Communicated to AFEID.
3. Theme and Topics for future Congresses			
	Recommended the Theme and Topics for Questions, Sub-Questions, Special Session and Symposium for 23 rd ICID Congress, Mexico City in 2017, for Council's approval.	Endorsed the Theme and Topics for Questions, Special Session and Symposium for 23 rd Congress vide Resolution No.IEC-3/65 (Sr. No.6). Sub-Questions have been kept tentative and shall be finalized by ITAC constituted for 23 rd ICID Congress to accommodate the inputs from international technical partners, as per the request of IEC vide Resolution No.IEC-3/65 (Sr. No.11)	ITAC for 23 rd Congress will be constituted in due course.
4. Theme and Topics for future World Irrigation Forums			
	Recommended the Theme and Sub-Themes for WIF2 in Chiang Mai, Thailand, 2016 for Council's approval.	Endorsed the Theme and Sub-Themes for WIF2 vide Resolution No.IEC-3/65 (Sr. No.6). Requested MB to establish International Steering Committee (ISC) and ITAC for WIF2 and the topics under Sub-Themes shall be finalized after giving due consideration to the inputs from international technical partners of ICID.	ISC and ITAC for WIF2 have been established and constituted by MB.



Annex 2 (Appendix XXIX, Item 3)**LIST OF TOPICS FOR THEMES & QUESTIONS OF ICID CONGRESSES
UPTO 23RD ICID CONGRESS****1st Congress 1951, New Delhi, India**

- Question 1: National review of irrigation development and practice
Question 2: Present-day problems in irrigation and drainage

2nd Congress 1954, Algiers, Algeria

- Question 3: The problems of freeboard in irrigation channels (canals, branch canals, distributaries and watercourses or laterals), drainage channels, embankments, levees and reservoirs from the theoretical and economic aspects
Question 4: The behaviour of the sub-soil water table under a system of irrigation and drainage
Question 5: The maintenance of irrigation and drainage channels with special reference to weed control
Question 6: Groundwater - Its use for irrigation, safe yield from a unit area of basin, artificial recharge of supply and planned utilization of underground reservoirs

3rd Congress 1957, San Francisco, USA

- Question 7: Canal lining
Question 8: Soil-water relationships in irrigation
Question 9: Hydraulic structures on irrigation and drainage systems
Question 10: Inter-relation between irrigation and drainage

4th Congress 1960, Madrid, Spain

- Question 11: Reclamation of waterlogged and marshy lands
Question 12: Sprinkler irrigation and comparison with other methods of irrigation
Question 13: Tolerance of plants to minerals in solution in irrigation water and in soil
Question 14: Use of longitudinal embankments or levees as flood protection measures

5th Congress 1963, Tokyo, Japan

- Question 15: Economics and financing of irrigation, drainage and flood control works
Question 16: Efficiency of water distribution and use on the land
Question 17: Control of water table in drained land prevention of over-drainage
Question 18: Flood prevention and control by surface and sub-surface retention or spreading

6th Congress 1966, New Delhi, India

- Question 19: Reclamation of saline lands under irrigation
Question 20: Sediment in irrigation and drainage channels
Question 21: Development of deltaic areas
Question 22: Integrated operation of reservoirs for irrigation, flood control and other purposes

7th Congress 1969, Mexico City, Mexico

- Question 23: Water requirements of crops
Question 24: Hydraulic structures on small channels
Question 25: Methods and economics of operation and maintenance of drainage systems in agricultural areas
Question 26: Development of new irrigable and drained areas - Procedures and policies

8th Congress 1972, Varna, Bulgaria

- Question 27: Field irrigation and drainage in deltaic, coastal and low-lying areas
Question 28: Recent and promising developments including mechanization of operations in the field of irrigation and drainage
Question 29: Factors affecting river training; and flood plain regulation (including flood zoning)

9th Congress 1975, Moscow, USSR

- Question 30: Sediment-controlling irrigation intake structures
Question 31: Planning of development of groundwater for irrigation
Question 32: Comparison of advanced methods of irrigation including development of irrigation by pumping

10th Congress 1978, Athens, Greece

- Question 33: Economic evaluation of irrigation projects - Studies developed and case studies of economic and environmental impacts
Question 34: Latest subsurface drainage techniques and drainage construction methods
Question 35: Operation and maintenance of irrigation and drainage systems (organization, maintenance equipment, operation, etc.)

11th Congress 1981, Grenoble, France

- Question 36: Improvement and modernization of existing irrigation and drainage systems
Question 37: Flood control in relation to land use planning and water management

12th Congress 1984, Fort Collins, USA

- Question 38: Water management factors
Question 39: Irrigation and drainage of problem soils

13th Congress 1987, Casablanca, Morocco

- Question 40: Rehabilitation and modernization of irrigation and drainage projects for improving water management
Question 41: Improving water management through training

14th Congress 1990, Rio de Janeiro, Brazil

- Question 42: The influence of irrigation and drainage on the environment with particular emphasis on impact on the quality of surface and groundwater's
Question 43: The role of irrigation in mitigating the effects of drought

15th Congress 1993, The Hague, The Netherlands

- Theme:** Water management in the next century
Question 44: Planning and design of irrigation and drainage systems
Question 45: Irrigation and drainage systems management - Institutional and financial interrelationships

16th Congress 1996, Cairo, Egypt

- Theme:** Sustainability of irrigated agriculture
Question 46: Farmers' participation towards sustainable irrigated agriculture
Question 47: Irrigation planning and management: Measures in harmony with the environment

17th Congress 1999, Granada, Spain

- Theme:** Water for Agriculture in the next millennium
Question 48: Irrigation under conditions of water scarcity
Question 49: Rehabilitation and modernization of irrigation and drainage systems

18th Congress 2002, Montreal, Canada

- Theme:** Food Production under Conditions of Water Scarcity, Increasing Population and Environmental Pressures
Question 50: Food production, poverty alleviation and environmental challenges as influenced by limited water resources and population growth
Question 51: Integration and management of irrigation, drainage and flood control

19th Congress 2005, Beijing, China

- Theme:** Use of Water and Land for Food and Environmental Sustainability
Question 52: Improving water and land management for increasing efficiency in irrigated agriculture
Question 53: Harmonious coexistence with flood water

20th Congress 2008, Lahore, Pakistan

- Theme:** Participatory Integrated Water Resources Management - From Concepts to Actions
Question 54: Sustainable Integrated Water Resources Management
Question 55: Role of Public and Private Sectors in Water Resources Development and Management

21st Congress, 2011, Tehran, Iran

- Theme:** Water productivity towards food security.
Question 57: Water Management in Rainfed Agriculture
Question 56: Water and Land Productivity Challenges

22nd Congress, 2014, Gwangju, Korea

- Theme:** Securing Water for Food and Rural Community under Climate Change
Question 58: How Irrigation and Drainage Play an Important Role in Climate Change Adaptation?
Question 59: How Do Irrigation and Drainage Interventions Secure Food Production and Livelihood for Rural Community?

23rd Congress, 2017, Mexico City, Mexico

- Theme:** Modernizing Irrigation and Drainage for a new Green Revolution
Question 60: Water Productivity: Revisiting the concepts in light of water, energy and food nexus
Question 61: State of knowledge of irrigation techniques and practicalities within given socio-economic settings



Annex 3 (Appendix XXIX, Item 3)**LIST OF TOPICS FOR THEMES & SUB-THEMES FOR WIFs UPTO WIF2
AND THEMES OF WWFs UPTO WWF7****A. World Water Forums****First World Water Forum, 1997, Marrakech, Morocco****Theme:** Vision for Water, Life and the Environment in the 21st Century.**Second World Water Forum, 2000, The Hague, The Netherlands****Theme:** From visions to action**Third World Water Forum, 2003, Kyoto, Shiga & Osaka, Japan****Theme:** A Forum with a Difference**Fourth World Water Forum, 2006, Mexico City, Mexico****Theme:** Local Actions for a Global Challenge**Fifth World Water Forum, 2009, Istanbul, Turkey****Theme:** Bridging divides for water**Sixth World Water Forum, 2012, Marseille, France****Theme:** Solutions for Water**Seventh World Water Forum, 2015, Daegu and Gwangju, Korea****Theme:** Water for our Future**B. World Irrigation Forums****First World Irrigation Forum, 2013, Mardin, Turkey****Theme:** Irrigation and Drainage in a Changing World: Challenges and Opportunities for Global Food Security

Sub-Theme 1: Policy, Science and Society Interactions

Sub-Theme 2: Challenges and Developments in Financing Irrigation and Drainage Sector

Sub-Theme 3: Integrated Water Management Approaches for Sustainable Food Production

Second World Irrigation Forum, 2016, Chiang Mai, Thailand**Theme:** Water management in a changing world: Role of Irrigation for sustainable food production

Sub-theme 1: Key actors in balancing water, food, energy and ecology

Sub-theme 2: Managing impacts of climatic extremes with focus on floods and droughts

Sub-theme 3: Key and smart actions to alleviate hunger and poverty through irrigation and drainage



Annex 4 (Appendix XXIX, Item 5.3)

PROPOSAL FOR INTERNATIONAL WORKSHOPS¹
(During Various ICID Events)

I Title of the Workshop (Theme): _____

II Proposing Working Group: _____

III Objective of the Workshop: _____

IV Scope of the workshop (100 words): (Including its relationship with the theme of the Congress/ WIF/ Regional Conference, if any)

V Proposed International Partner(s): _____

1. _____

2. _____

.

VI Possible sub-topics /sub-themes:

1. _____

2. _____

3. _____

¹ This format is for the organization of an International Workshop other than those organized within the allocated time for the Working Groups Annual Meeting.

VII Other Details:

1. Expected audience _____
2. Number of persons expected to attend _____
3. Sponsorship, if any _____
4. Do you plan to bring out the Proceedings (USB or Hard copy), and timeframe?

VIII Schedule for submission of abstracts / full papers

- Submission of abstracts (max. 300 words): _____
- Notification of acceptance: _____
- Submission of full paper: _____
- Notification of acceptance: _____

IX Contact Coordinates:

- | | |
|-----------------------|---------------|
| (1) Chair _____ | E-mail: _____ |
| (2) Coordinator _____ | E-mail: _____ |

