

**Minutes of the 69th Meeting of
INTERNATIONAL EXECUTIVE COUNCIL (IEC) OF ICID
Saskatoon, Saskatchewan, Canada
Opening Plenary (First Session): 13 August 2018, 17:00 – 18:30 hours
Second Session: 17 August 2018, 09:00 – 12:30 hours
Third Session: 17 August 2018, 13:30 – 17:00 hours**

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

Opening Plenary (First Session): 13 August 2018, 17:00 – 18:30 hours

The 69th meeting of the International Executive Council of ICID was organized in three sessions. The Opening Plenary was aimed at addressing all stakeholders, experts, representatives, partners and observers with the objective to communicate issues of general concern and also presenting ICID annual awards and recognitions. The opening plenary was attended by more than 500 delegates from 41 countries. They participated in the various working groups, task teams and committees in the following four days. The main session of IEC, which was conducted in two sessions on 17th August, 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 69th IEC meeting is given in **Annex 1, page 47** and includes representatives of 29 National Committees, 9 Office Bearers, 5 past Presidents and 7 past Vice Presidents.

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

1. President Mr. Felix B. Reinders welcomed the members to the 69th IEC meetings. He thanked CANCID for making excellent arrangements for the 69th IEC meetings. The Council observed one-minute silence in remembrance of VPH Dr. Brane Maticic and other departed souls from ICID fraternity.
2. In his opening remarks, the President pointed out the role that ICID has to play with the international water community in perspective of the new challenging conditions of growing water scarcity and impending climate change. The President highlighted the main achievements of the Commission during the last year since the 68th IEC meeting at Mexico City and impressed upon a coherent approach towards the mission of ICID among its various stakeholders.

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

3. Secretary General Ashwin B. Pandya introduced the Agenda for the 69th IEC meeting and invited the attention of the members to the important issues before the Council such as the review of the action plans identified under Road Map to ICID Vision 2030 though the present monitoring mechanism, High Level Advisory Group meeting on “Partnerships for Agriculture Water Management” at WIF3, celebrating the 70th Year of ICID Establishment, Knowledge Management Portal, establishment of new Regional Nodes under IRPID, etc. He requested the chairs and members of various workbodies to use the updated agenda notes with supplementary information uploaded on the website for the meetings of the Council, the Permanent Committees and Workbodies.
4. He informed that one of the important points that would be discussed under the PFC agenda is the Report of the Task Force on Independent Business Unit.
5. VPH Dr. Ding Kunlun, Chairman, PCTA familiarized the members with the four thematic groups of Basin, Knowledge, Schemes and On-Farm under which the workbodies under PCTA are organized and the review of these thematic groups by their co-theme leaders, who are Vice Presidents of ICID, during the PCTA meeting and at IEC, where one of the strategy themes will be presented on rotation basis. He advocated the need to stick to the laid down guidelines and procedures for the improved functioning of the WGs which will make the WB meetings more productive. He emphasized the need for the presence of Chairs of the workbodies, who are ex-officio members of PCTA, to present the reports of their respective WBs during the PCTA meeting in order to help PCTA to make appropriate recommendations to the Council. He emphasized the role of Co-Theme Leaders and

WB Chairs in the existing monitoring mechanism for assessing the progress achieved in the activities identified under various strategies which form part of the Action Plan 2017-21 of the Road Map to ICID Vision 2030. The Chair, PCTA also briefed about the revised and renamed WHIS Scheme and its objectives to encompass a wider audience, including non-members of ICID.

6. VPH Bong Hoon Lee, Chairman, PCSO made short presentations on the important aspects that various Working Groups needed to pay attention while holding their meetings such as monitoring the progress achieved under Action Plan 2017-21. He requested the presence of Chairs of RWGs and Committees and WBs, who are ex-officio members of PCSO, for reporting the outcomes of their meetings to PCSO and informed that the PCSO meeting is open to all. He drew the attention of the members to the restructured and expanded ICID Knowledge Management Portal, which will be presented during the PCSO meeting, besides the Report of Task Team on Single Membership for Regional Organizations.

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

7. VP Eng. Madhav Belbase, President of the Nepal National Committee of ICID (NENCID) briefly presented the activities of NENCID and went on to present the Agriculture Water Management, irrigation potential, development and management over the years in Nepal. He described the various policy tools used in irrigation development, viz. institutional, technological, besides the modernization of irrigation systems in Nepal – state owned and farmer owned. VP Belbase also presented the forecast for irrigation management in Nepal and finally concluded his presentation, giving a brief on the activities of NENCID, covering 8th Asian Regional Conference and YP Training held in Kathmandu in May 2018. The presentation made by Eng. Belbase on Nepal scenario of irrigation management was highly useful to the participants. The PowerPoint presentation made by VP Belbase is available at http://www.icid.org/Presentation_VPBelbase2018.pdf

8. Dr. Abdullahi Hassan, Director of Irrigation, Ministry of Agriculture and Irrigation and Secretary General, Somalia National Committee on Irrigation and Drainage (SONCID) presented the Somalia irrigation Sector for the benefit of the participants. Dr. Hassan stated that Somalia has the longest coast in Africa, and highlighted the diverse variety of fish species available. He informed that the Agriculture is the most important component of Somalia's economy and how it contributes to its GDP and earnings through exports. He presented the history of irrigation in Somalia, while highlighting how the Shabelle and Juba River Basins supplies water to the country's rice bowl and contribute to its development. He concluded his presentation stating that irrigated areas benefited from a well-established network of canals and drains during 1980s and 90s, allowing a consistent supply of water that was supplemental due to scarce and unreliable rains, with surface and underground. The participants appreciated the presentation (http://www.icid.org/Presentation_AbdullahiHassan2018.pdf) made by Dr. Hassan, which was a good attempt in providing a complete picture on Somalia's irrigation scenario and its development over the years.

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

IEC Minutes Item 4.1: Presentation of WatSave Awards

9. PH Dr. Saeed Nairizi (Iran), as the Chair of the Panel of Judges for WatSave Award 2018, presented his report and recommended to the Council for conferring the awards in different categories as follows: **Technology Award** shared jointly by Mr. John Hornbuckle, Mr. Jamie Vleeshouwer and Ms. Janelle Montgomery (Australia) for their work on "IrriSAT, a weather-based irrigation management and benchmarking technology app providing site-specific crop water management information across large spatial scales at fine resolution using remote sensing"; **Innovative Water Management Award** to Mr. Richard Phillips (Canada) for his work on "Alberta Irrigation Management Model (AIMM), a Decision Support System to assist irrigation producers better manage their irrigation water application efficiency and optimize crop production" and **Young Professional Award** won jointly by Mr. Amirali Fatahi and Ms. Fatemeh Sadat Mortazavizadeh (Iran) for their work on "Generated Significant Savings in Irrigation Water by Adding Fuel from Livestock Wastes to Agricultural Land". This year, under Farmer's category, no nomination was received.

10. President Felix and CANCID President Mr. Roger Holm handed over the plaques and the prize monies of US\$ 2000 each to the WatSave Award winners.

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

11. Out of all the papers published in the ICID Journal "Irrigation and Drainage" during the year 2017, the best paper was announced by Mr. Brent Paterson, Canadian member of EB-JOUR on behalf of PH Prof. Bart Schultz,

Chair of EB-JOUR. The Best Paper Award was shared jointly by Abdullah Darzi-Naftchali, Fatemeh Karandish and Ahmad Asgari for their paper “Diagnosing Drainage Problems in Coastal Areas Using Machine-Learning and Geostatistical Models”, published in The Irrigation and Drainage (Volume 66, Issue 3) and Abdelraouf Ramadan and Ragab Ragab for their paper “The Benefit to Using Drainage Water of Fish Farms for Irrigation: Field and Modelling Study using Saltmed Model” published in the Volume 66, Issue No.5 of the Irrigation and Drainage.

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

12. The Chair of the Panel of Judges, VPH Bong Hoon Lee, PCSO Chairman, presented to the Council, the report on the historical irrigation and drainage structures identified to be recognized as World Heritage Irrigation Structures (WHIS). Accordingly, the Council accorded its approval to the recognition as “World Heritage Irrigation Structures” to fourteen irrigation structures from: **China (4)**: Changqu (Bai Qi) Canal, Dujiangyan Irrigation System, Jiangxiyan Irrigation System, and Lingqu Canal; **India (2)**: Large Tank (Pedda Cheru), and Sadarmatt Anicut; **Italy (1)**: Aqua Augusta and Piscina Mirabilis; **Japan (4)**: Kitadate Irrigation System, Gorobe Irrigation System, Tsukidome Irrigation Canal, and Shirakawa basin Irrigation system; and **Sri Lanka (3)**: Elahera Anicut, Kantale Wewa, and Sorabora Wewa. The irrigation structures recognized as WHIS will be included in the ICID Register of WHIS.

13. The President, ICID handed over the “Plaque and a Certificate” to this effect to the owner agencies of these structures.

Second Session: 17 August 2018, 09:00 – 12:30 hours

IEC Minutes Item 5: Action Taken Report on the decisions of 68th IEC and the decisions taken by the Management Board (MB)

14. Secretary General informed that actions on all the decisions by the 68th IEC had been initiated/ completed during the year. The Council endorsed the decisions taken by the Management Board on behalf of IEC in accordance with Article 8.1 of the ICID Constitution and Clause 3.9.2 of ICID By-laws, as listed in **Annex 2, page 49**.

IEC Minutes Item 6: Report by the Secretary General

15. Secretary General presented the Annual Report 2017-18, and also presented the physical and financial progress on activities undertaken during the period from April 2018 till date.

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

16. The technical activities of ICID are organized under four Strategy Themes, namely Knowledge, Schemes, Basin and On-farm. Currently, there are six WBs under the ST-Knowledge – WG-CDTE, WG-HIST, TF-MTD, TF-WWF8, TF-VE and EB-JOUR. The Co-Theme Leader of ST-Knowledge, VP Waseem Nazir made the presentation on Strategy Theme “Knowledge” analyzing the work undertaken by the work bodies under the theme.

17. VP Waseem began his presentation, reiterating that ICID is a knowledge based network and KM activities are core elements that form the basis of this network. He presented an analytical report of the each of the workbodies with respect to their mandates and felt that WG-CDTE was able to achieve its mandate through activities such as training programs for YPs, KM strategy initiative, dissemination and sharing of knowledge and regular e-learning programs. WG-HIST has made satisfactory progress and is able to recognize historical irrigation structures worldwide through WHIS. EB-JOUR is highly focused on its mandate, while TF-MTD is in the process of gradually updating the MTD Version 5. TF-WWF8 achieved its mandate by guiding ICID to provide its inputs at WWF8 in Brasilia, where ICID was well represented in the Forum, through significant contributions during thematic sessions coordinated or supported by ICID.

18. The key observations made by VP Nazir during his presentation are: (i) Absence of formal monitoring framework for measuring progress against roadmap and workplan, (ii) Inconsistent and arbitrary changes in mandates of working groups, (iii) Increasing use of online modes for WG meetings, (iv) Need to minimize administrative discussions during meetings, (iv) Need for enhance inclusivity and refocusing meetings for specific stakeholders, (v) Need for enhanced coordination across WGs and themes to avoid duplication, and (vi) Insufficient identification of issues, action items and understanding of responsibilities.

19. The ways suggested by VP Nazir for optimizing the activities of WBs in fulfilling their mandates are: (i) Theme leader should take the role with an objective to have an efficient and effective working of the WGs; (ii) Introduce accountability through monitoring and reporting; (iii) Ensure collaboration between all theme leaders

through a formal interaction once a year; (iv) Constitute Task Force for developing publicity, promotional and marketing materials for proliferation and application of ICID knowledge; and (v) Publish knowledge sharing materials for ICID marketing. The presentation made by VP Nazir is placed at http://www.icid.org/Presentation_VPWNazir2018.pdf

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

20. In his report to the Council, VPH Dr. Ding Kunlun, Chair of AC-IRPID, gave a brief introduction about the objectives of IRPID Scheme and how the establishment of Regional Nodes is envisaged under the Scheme, including its organizational structure, responsibilities and functions. He also provided a brief on the two existing RNs hosted by NCs of China and Iran.

21. He informed the Council that more and more NCs are interested in establishing RNs in various regions, which is a good development since the notification of the revised IRPID Scheme (http://www.icid.org/irpid_scheme.pdf), vide Notification No.6 of 2017 dated 23 February 2017 among ICID National Committees. The Advisory Committee has considered the proposals for four RNs from the NCs of Italy in Mediterranean Region, Egyptian NC in Africa region, supported by the NCs of Morocco and Sudan, Tajikistan NC in Central Asian and Caucasus Regions and Mexican NC in Latin America region, with Spanish-speaking countries and made its recommendations to PCTA which will be presented to the Council through PCTA report.

22. VPH Dr. Ding Kunlun then presented to the Council, the Irrigation Research (IrriSEARCH) database template available at <http://www.icid.org/addrsearchdata.php> in order to help ICID as a repository of knowledge in irrigation and drainage sector. It is intended to bring together all Agriculture Water Management (AWM) research activities from various NCs on a single platform to help others learn from their experiences, how the IRPID Scheme could provide a platform to NCs, an opportunity to improve its profile within the countries. It is expected to act as a window to exchange and showcase ongoing research activities in the irrigation and drainage sector worldwide, for various research stakeholders in AWM research.

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

IEC Minutes Item 9.1: Permanent Finance Committee (PFC)

23. VPH Laurie Tollefson, Chairman, PFC presented his report on the 39th meeting of the PFC held on 13 August as given at **Appendix I, page 59**.

24. The Council was informed that the Indonesian NC has revised the full registration fee for WIF3 to US\$ 800 from US\$ 700, as agreed during the last meeting, and the host NC of 5th African Regional Conference, Moroccan NC has proposed a revised Registration Fee of US\$ 350 from the proposed US\$ 500, in order to encourage greater participation, particularly from African countries. The Council approved the PFC recommendation of the revised full Registration Fees of US\$ 800 and US\$ 350 for WIF3 and 5th AFRC.

25. Based on the PFC report, the Council approved 'in-principle' the development of implementation model for the IBU through engagement of required experts (Techno-Commercial, Legal, Finance), and obtain statutory approvals of Government of India for its incorporation for launch as part of the 70th year celebrations during the 70th IEC in 2019 at Bali, Indonesia. IEC also approved the waiver of short payment of US\$ 676.88 by Pakistan National Committee (PANCID) as recommended by PFC as a special case and one time measure.

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

26. VPH Bong Hoon Lee, Chairman, PCSO presented his report on the 29th meeting of PCSO held on 15 August as given at **Appendix II, page 65**.

27. The Council approved the nomination of VP Dr. Brian T. Wahlin as Chair of PCSO, in terms of ICID By-laws 3.9.5 (c).

28. The Council acknowledged the Committee's view on granting single membership to countries through regional organizations is a very complicated and complex issue, and hence needs to be dealt very cautiously. The Council accordingly endorsed the recommendation that the regional organizations can join ICID as Direct Members.

29. The Council accepted the revised version of KMS (named ICID Knowledge Portal), as recommended by the Committee and the YPs should be encouraged to generate content for the portal. The Council asked ICID central Office to approach Research and Development Institutions to share their knowledge objects for inclusion in the portal.

30. The Council approved the recommendations of ERWG that ICID needs to be more relevant to the problems being faced by European countries and there may be more numbers of Direct Members from Europe, in terms of remaining ToRs 3 and 4 of erstwhile TF-REV to study the financial and operational arrangements of European NCs and the reasons for their withdrawal from the membership of ICID in the recent past.

31. The Council accorded approval to the setting up of a Task Force on Legislative Framework on Agricultural Drought Mitigation for European Region, as recommended by the Committee.

32. While approving the Letter of Agreement (LoA) between the host NCs and ICID as recommended by the Committee, as given **Annex R2.1, page 21**, the Council agreed to constitute a Task Team to look into financial aspect of special contribution to ICID budget from ICID events and the fixation of registration fees for ICID events in the local currency at the time of initial approval, and later made available in USD when registrations are opened to public to mitigate the risk for host NCs due to the fluctuations in the exchange rates of US Dollar against the local currency. The MB is asked to decide the composition and ToR of the TT.

33. The Council endorsed the constitution of a Task Team to develop publicity and promotional material and review ICID web presence. The MB is requested to determine the composition and ToR for the TT.

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

34. VPH Dr. Ding Kunlun, Chairman, PCTA presented his report on the 38th meeting of PCTA held on 16 August as given at **Appendix III, page 69**.

35. The Council noted the activities of the existing Regional Nodes of IRPID in China and Iran, and endorsed the proposals for the establishment of three additional Regional Nodes of IRPID – one each in North Africa hosted by ENCID, Mediterranean hosted by ITAL-ICID, Central Asia & Caucasian Regions hosted by TAJCID, as recommended by PCTA.

36. The Council agreed with the privacy policy of the data, as recommended by EB-JOUR through the Committee.

37. The Council, based on the report of SC-E-THEMES, considered the recommendation to work out the structure of meetings related to IEC and to draw guidelines to make the WG meetings/sessions technically richer and beneficial to the stakeholders and industries by exploring the ways of combining the meetings of work bodies with areas of common interest and endorsed the same.

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

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

39. The Council adopted the resolutions on the Financial Matters of ICID presented through PFC Report and on the Organizational and Technical Matters of ICID presented through the Reports of PCSO & PCTA, that are placed at **Resolution IEC-1/69 and Resolution IEC-2/69 (pages 9 and 10), respectively**. The Council approved the Audited Accounts of ICID for the Financial Year 2017-18 as given in **Annex R1.1, page 13**, and the revised Budget for FY 2018-19, and the proposed Budget for FY 2019-20 as given in **Annex R1.2, page 18**.

40. VPH Laurie Tollefson, Chair, PFC presented the actions taken on the recommendations of the TF on Review of Annual Subscriptions and the Council noted the outcomes of the discussions held with the NCs of Malaysia, Estonia, Hungary and Nepal. MANCID has agreed to have a re-look at the drainage area reported for rationalization of the contribution values in terms of revised formula, whereas ESTICID has agreed to transition in a stepped manner. HUCID has informed that reconciled areas would be communicated shortly, while NENCID agreed to maintain the subscription at the present level due to its special developmental status.

41. The Council approved the revised World Heritage Irrigation Structure (WHIS) Scheme as given in **Annex R2.2, page 37**, as recommended by PCTA based on the report of the WG-HIST.

42. On recommendation of PCTA, the Council approved the re-establishment of the (i) WG on Irrigation and Drainage in the States under Socio-economic Transformation (WG-IDSST) and (ii) WG on Non-Conventional Water Resources for Irrigation (WG-NCWRI). The Council also approved the establishment of TF to Guide ICID Inputs to 9th World Water Forum (TF-WWF9), while approving the closure of TF-WWF8. In-principle approval has been accorded to the setting up of a Working Group on Adaptive Flood Management (WG-AFM), and authorized MB to take a final decision with regard to its membership and Chair, as nine NCs have shown interest already in

the proposed WB. The in-principle approval has also been granted to the establishment of a WG on Rain Water Harvesting (WG-RWH) and a Task Team on Transboundary Water Management and Effect on Agriculture Water Management (TT-TWM-AWM). The mandates for the newly established/re-established WBs are given in **Annex R2.3, page 43**. The Council recommended to investigate the need for the establishment of the WG on Value Engineering (WG-VE) subject to completion of output of TF-VE and resubmission of the revised scoping document for getting support of at least 10 National Committees to nominate experts from their countries to the activities of the WG. The Council also approved merger of WG-BIO FUEL with WG-WATER & CROP.

43. The Council considered the recommendation of PCTA and approved the topics for the Theme and Sub-Themes for 4th World Irrigation Forum (WIF4) in 2022 and Theme and Questions 64 and 65 of 25th ICID Congress in 2023, as given in **Annex R2.4, page 45**.

44. The Council accorded approval to the setting up of a Task Force on Legislative Framework on Agricultural Drought Mitigation for European Region, following the procedures that are already in place for establishment of newly proposed WBs.

45. The Council approved the membership changes of various workbodies under PCSO and PCTA, and consequent updated and consolidated membership of all workbodies is given at **Annex 3, page 51**.

46. The Council endorsed the existing mechanism to monitor the Action Plan 2017-2021 appended to 'Road Map to ICID Vision 2030' and endorsed that the Strategy Theme Leaders and WG Chairs should provide report on progress of activities under Road Map every year to respective Permanent Committees and to the Council, if required.

Third Session: 17 August 2018, 13:30 – 17:00 hours

IEC Minutes Item 10: A Road Map to ICID Vision 2030: Activities under ICID Action Plan 2017-2021

47. The Council reviewed the progress made by the WBs in the implementation of the activities identified in the Action Plan 2017-21, and felt that the existing mechanism to monitor the Action Plan is adequate and Strategy Theme Leaders and WG Chairs should continue to provide the report on progress of activities under Road Map as adopted vide Resolution IEC-2/69.

IEC Minutes Item 11: Task Force to Guide the Partnership Process (TF-GPP)

48. A Task Force to Guide the Partnership Process (TF-GPP) was set up under the chairmanship of President, ICID in compliance with the decision of the 67th IEC at Chiang Mai in November 2016 to provide support to the High Level Advisory Group (HLAG) on "Partnerships for Agriculture Water Management", which was established following the declaration of the Ministerial meeting held on 6 November 2016 during the second World Irrigation Forum (WIF2). The TF is mandated to guide process of developing the partnership further and support the HLAG in taking forward the key initiatives such as (i) Recognition of AWM as a significant component of SDG 6 & 2; (ii) Development of specific AWM indicators and (iii) Knowledge integration through sharing best AWM practices, techniques, manuals, knowledge and practical know how.

49. The first HLAG meeting was organized on 10 October 2017 during the 23rd ICID Congress at Mexico City, where the response was lukewarm. Notwithstanding that, the MB at its sixth virtual meeting (MB-6/17) held on 22 November 2017 advised that the efforts should be continued to involve the policy makers, and the actions such as inviting the Ministers and High Officials should be taken well in advance, in order to have at least 10 Ministers at WIF3 to attend the HLAG meeting.

50. Accordingly, the meeting of TF-GPP was organized on 12 August chaired by President Felix, who presented the report to the Council. The TF made the following recommendations for ensuring the participation of the Ministers at the HLAG meeting during WIF3, which were endorsed by the Council.

- (a) Communicate with respective NCs,
- (b) Use formal lines of communication to send letter of invitation direct to the Ministers,
- (c) TF to give advice on technical aspects only and not on sensitive political matters,
- (d) Strengthen the communication/partnership with senior officials (Institutional memory) who in turn can provide advice to the Ministers, and
- (e) Event to be organised in WIF3 with WASAG (Global Framework on Water Scarcity in Agriculture).

IEC Minutes Item 12: Possible changes in Constitution and By-laws

51. As per the decision of 67th Council meeting in Chiang Mai in 2016, a Sub-Committee was set up to look at the possible changes in the Constitution and By-laws under the chairmanship of PH Peter Lee (UK). Based on the report of the Chairman of the Sub-Committee, the 68th IEC meeting held at Mexico City, Mexico on 14 October 2017 unanimously accepted the recommendations, except the one to make amendments to ICID By-laws 3.9.5 (c) related to PCSO membership, by including the representative of the Young Professionals as the Vice Chair of the Committee, as this amendment was not circulated among the NCs as part of the Report of the Sub-Committee, in accordance with the Article 12.2 of the Constitution. Later IEC, on the advice of the Sub-Committee, decided that the proposed amendment be taken up at the 69th IEC, and till that period; the Vice Chair may be included as an Observer to PCSO.

52. Secretary General Ashwin Pandya presented the proposed amendment to ICID by-laws 3.9.5 (c) governing the membership of PCSO to the Council, to include the Coordinator of IYPeF as a member of PCSO, which was circulated among the NCs two months in advance in terms of Article 12.2 of the Constitution. The Council adopted the amendment unanimously vide **Resolution IEC-3/69, page 12** and the updated ICID By-laws are available at http://www.icid.org/icid_bylaws.pdf.

IEC Minutes Item 13: Status of Future ICID Conferences / Congresses / Forums

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

- (i) 9th International Micro Irrigation Conference, Aurangabad, India, 16-18 January 2019
- (ii) 70th IEC and 3rd World Irrigation Forum, Bali, Indonesia, 1-7 September 2019
- (iii) 71st IEC and 24th Congress, Sydney, Australia, 22-28 September 2020

54. The Council was informed that the representatives of INCSW, INACID and IACID had apprised the progress about the preparations for the above events – financial aspects at PFC and organizational and technical aspects at C-CONG and PCSO.

55. Pr El Houssine BARTALI Vice President, ANAFIDE, presented a detailed proposal to host the 5th African Regional Conference in Rabat from 16-18 March 2020. Based on his presentation, the Council approved the ANAFIDE's proposal to host the 5th African Regional Conference in 2020 in Rabat, Morocco. ANAFIDE also expressed their interest in hosting the 73rd International Executive Council and 4th World Irrigation Forum in 2022.

56. The Council also noted that ICID Central Office had invited proposals from NCs for hosting the following future ICID events and no proposal had been received till the Council meeting, other than the expression of interest shown by ANAFIDE for 2022 meetings.

- (i) 27th European Regional Conference (2020 onwards)
- (ii) 72nd International Executive Council (2021)
- (iii) 14th International Drainage Workshop (2021 onwards)
- (iv) 73rd International Executive Council and 4th World Irrigation Forum (2022)

57. The Council asked the Central Office to invite the proposals for the above events and requested NCs to come forward to host these future events.

IEC Minutes Item 14: Celebrating 70th Year of ICID's Formation

58. The Council agreed to the proposal to celebrate the 70th year of foundation of ICID with the following activities, beginning from 24th June 2019 to the conclusion of the year in 2020, with the Sydney Congress in September 2020, as suggested by the first meeting of the Management Board in 2018 (MB-1/18) held on 03 May 2018 at Kathmandu, Nepal.

- (a) Bringing out a publication with photos and a page write up on the highlights of the operations of each of National Committee, historical background of establishment of ICID and its early years. The publication can be in form of a collectible coffee table book.
- (b) National Committees be requested to organize commemorative functions in their respective countries for improving the awareness about ICID in their respective countries. They may bring out the significant impacts of ICID in the sector as pertinent to their country.

- (c) YPs may be tasked with celebrations and preparation of audio visual material about ICID which can be presented in the congress at Sydney as a conclusion of the celebrations.
- (d) WGs can also be asked to write their own histories and achievements. Special publications on the appropriate subjects in their operative sphere can also be planned for target release in 2020 Congress at Sydney.

59. The Council asked the CO to carry out the planned activities in a time bound manner.

IEC Minutes Item 15: Election of the Office-Bearers 2018-2021

60. The Council was informed that, as per the provisions of Articles 7.2.3 and 7.2.4 of the ICID Constitution, the 3-year term of Office (2015-2018) of Vice Presidents Prof. Dr. Charlotte de Fraiture (The Netherlands); Mr. Ian William Makin (UK) and Prof. Dr. Abdelhafid Debbarh (Morocco) would conclude at the end of the 69th IEC and its adjunct study tours.

61. 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 2018-2021, two nominations were received in the Central Office – Dr. Kamran Emami (Iran) and Mr. Ahmed EL BOUARI (Morocco) -- by the due date of 16 April 2018.

62. The Council was told that the nomination of Dr. Marco Arcieri was invited from the Italian 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.

63. Based on the voting undertaken in accordance with ICID By-laws 2.8 to decide the seniority of the Vice Presidents, the Council elected Dr. Marco Arcieri (Italy), Dr. Kamran Emami (Iran) and Mr. Ahmed EL BOUARI (Morocco) as Vice Presidents of ICID, for a three year term 2018-2021, in that order of seniority. As per article 7.2.4 of ICID Constitution, the term of VPs elected at the 69th IEC meeting, shall begin at the conclusion of the present Council meeting and its appurtenant study tours and end by the conclusion of the Council meeting and its appurtenant study tours in the year 2021.

64. President Felix congratulated the newly elected Vice Presidents and expressed his happiness at the outcome of the election.

IEC Minutes Item 16: Presentation of ICID Plaques to Retiring Vice Presidents and Chairs of Workbodies

IEC Minutes Item 16.1: Retiring Vice Presidents

65. Citation plaques were presented to the three retiring Vice Presidents for their guidance and services rendered to the ICID activities during their tenure of Office.

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|-------------------------------------|-----------------|----------------------------|
| (a) Prof. Dr. Charlotte de Fraiture | The Netherlands | Vice President (2015-2018) |
| (b) Mr. Ian William Makin | UK | Vice President (2015-2018) |
| (c) Prof. Dr. Abdelhafid Debbarh | Morocco | Vice President (2015-2018) |

IEC Minutes Item 16.2: Retiring Chairs of Workbodies

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

- i. VPH Bong Hoon Lee, Chairman, PCSO (2016-2018)
- ii. VPH Larry D. Stephens, Chairman, C-PR&P (1992-2017)

IEC Minutes Item 17: Any other business by the permission of the Chair

67. The President declared the 69th IEC meeting closed.



RESOLUTION IEC-1/69 [IEC Item 9.4, Para 38]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)**
RESOLUTION IEC-1/69: FINANCIAL MATTERS OF ICID**THE Council**

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

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

Considering the recommendation of the Management Board;

Decides Unanimously

1. To approve the nominations of Mr. Prof Muhammed Bin Musa (Morocco) and Mr Abdul Malik Saddat Idriss (Indonesia) to the membership of PFC.
2. Accorded Direct Membership to Mr. Sajid Ali Bhutto (Pakistan), who was granted provisional membership by the Direct Membership Administering Sub-Committee in Individual Category, for the periods for which he has paid subscription.
3. That the National Committees of Chad, Madagascar, and Tanzania be declared as “Associate Member” with effect from 1 January 2019 as they have failed to contribute ICID subscription for last three years in accordance with By-laws 13.2, in case the dues are not cleared by 31 December 2018.
4. To approve the Audited Accounts of ICID for the Financial Year 2017-18 as given in **Annex R1.1, page 13**.
5. To approve the Revised Budget of ICID for the Financial Year 2018-19 and the Budget for the financial year 2019-20 as given in **Annex R1.2, page 18**.
6. To approve the revised Registration Fee Structure for the third World Irrigation Forum (WIF3) to be held at Bali, Indonesia in September 2019 and the Registration Fee Structure for the 5th African Regional Conference to be held at Rabat, Morocco, March 2020, as given in **Annex R1.3, page 19**.
7. Approve the recommendations of Special Task Force on Independent Business Unit (STF-IBU) for ‘in-principle’ approval for development of detailed proposal and obtain necessary statutory approvals as well as from MB in consultation with NCs for potential launch of Independent Service Unit (ISU) as part of 70th year celebrations of ICID.
8. To approve the engagement of M/s. P. K. Chopra and Company as Statutory Auditors for a second term of three years from 2018-19 to 2020-2021.

Appreciates

1. Chinese National Committee for providing a support of US\$ 60,000 towards training programme of Young Professionals and Workshop at Beijing in April 2018.
2. The Chinese Taipei Committee for providing a special subscription of US\$ 5000 towards the publication of ‘Sustainable Development of Tidal Areas’ during the Financial Year 2017-18.
3. Korea Rural Community Corporation (KRC) and Korean NC (KCID) for supporting participation of Young Professional in various activities of ICID.



RESOLUTION IEC-2/69 [IEC Item 9.4, Para 38]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)****RESOLUTION IEC-2/69: 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 nomination of VP Dr. Brian T. Wahlin (USA) as the Chair of PCSO during his tenure of the membership of the Committee, in terms of ICID By-laws 3.9.5 (c).
2. To approve the Letter of Agreement (LoA) for Hosting Congresses/World Irrigation Forums/ Regional Conferences/ International Micro Irrigation Conferences/ International Drainage Workshops as given in **Annex R2.1, page 21** , with the fee structure to be reviewed subject to the findings of the proposed Task Team to look into financial aspect of special contribution to ICID budget from ICID events and fixation of Registration Fees in the local currency of host NCs till the time of opening of the registration with corresponding US Dollar.
3. To approve the revised and renamed “World Heritage Irrigation Structures (WHIS)” Scheme as given in **Annex 2.2, page 37**.
4. To approve the new/existing workbodies with revised mandates (**Annex R2.3, page 43**) on the topics under Strategic Theme - Basin:
 - (i) Re-establishment of the WG on Irrigation and Drainage in the States under Socio-economic Transformation (WG-IDSST)
 - (ii) Establishment of the WG on Non-Conventional Water Resources for Irrigation (WG-NCWRI)
 - (iii) Establishment of TF to Guide ICID Inputs to 9th World Water Forum (TF-WWF9)
 - (iv) Establishment of WG on Rain Water Harvesting (WG-RWH).
 - (v) Task Force on Legislative Framework on Agricultural Drought Mitigation for European Region
5. In principle approval to the establishment of the new WBs with mandates (**Annex R2.3, page 43**) on the topics:
 - Establishment of WG on Adaptive Flood Management (WG-AFM).
 - Task Team on Transboundary Water Management and Effect on Agriculture Water Management (TT-TWM-AWM)
 - Investigate the need for the establishment of the WG on Value Engineering (WG-VE) subject to completion of output of TF-VE and resubmission of the revised scoping document for getting support of at least 10 National Committees to nominate experts from their countries to the activities of the respective WG
6. To approve closure of TF-WWF8 with immediate effect.
7. To approve merger of WG-BIO FUEL with WG-WATER & CROP.
8. To approve the recommendations of ERWG that ICID needs to be more relevant to the problems being faced by European countries and there may be more numbers of Direct Members from Europe, in terms of remaining ToRs 3 and 4 of erstwhile TF-REV to study the financial operational arrangements of European NCs and the reasons for withdrawal of them from membership of ICID in the recent past.

9. To approve in-principle establishment of IRPID Regional Nodes for North Africa proposed by Egypt, Mediterranean countries proposed by Italy and Central Asian (CA) & Caucasus Regions proposed by Tajikistan.
10. To approve the constitution of the Task Team to look into financial aspect of special contribution to ICID budget from ICID events and fixation of Registration Fees in the local currency of host NCs till the time of opening of the registration with corresponding US Dollar.
11. To approve the constitution of a Task Team to develop promotional material and review ICID web presence.
12. To approve the Theme and Questions of 25th ICID Congress in 2023 and Theme and Sub-Themes for WIF4 in 2022 as given in **Annex R2.4, page 45**.
13. To approve privacy policy of the data as included in the minutes of EB-JOUR as given in **Annex R2.5, page 46**.

Appreciates

1. The Korean Rural Community Corporation (KRC) and Korean NC (KCID) for their support to the activity of Technical Support Programme (TSP).

Requests

2. National Committees to contribute towards the Fund created for undertaking activities under Technical Support Programme (TSP) through Technical Support Unit (TSU) and take full advantage of activities under TSP. Urges NCs to depute volunteers from time to time to undertake the activities of TSU.
3. National Committees to establish Regional Nodes under IRPID Scheme.



RESOLUTION IEC-3/69 [IEC Item 12, Para 51]**INTERNATIONAL EXECUTIVE COUNCIL (IEC)
RESOLUTION IEC-3/69: CHANGES IN THE BY-LAWS OF ICID****THE Council**

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

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

Decides unanimously

1. To adopt the amendments to the By-laws 3.9.5 (c) - The Permanent Committee on Strategy and Organization (PCSO) as updated on ICID website and are available at http://www.icid.org/icid_bylaws.pdf

Requests

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

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

To

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

Report on Financial Statements

We have audited the accompanying financial statements of **International Commission on Irrigation and Drainage (ICID-CIID)** ("the society"- PAN AAAAI1084P), which comprise the Balance Sheet as at 31st March 2018, Income & Expenditure, Receipt and Payment for the year then ended and other explanatory information.

Management Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance and receipt and payments, of the society in accordance with accounting principles generally accepted in India for Not-for-Profit Organizations.

This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

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

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgement including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Society's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances.

An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by the management, as well as evaluating the overall presentation of the financial statements.

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

Opinion

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

1. In the case of Balance Sheet, of the state of affairs of the Society as at March 31, 2018; and
2. In the case of Income and Expenditure Account, of the excess of Expenditure over income for the year ended on that date; and
3. And in case of the Receipts and Payments Account, of the Receipts and Payments for the year ended on that date.

Further we report that

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

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

Place: New Delhi
Date: 30th May 2018

Sd/-
CA Arvind Mongia
Partner
Membership No. 085176

**INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE
BALANCE SHEET AS ON 31ST MARCH 2018**

PARTICULARS		2017-18 Amount INR	2016-17 Amount INR
ASSETS			
Property & Equipment	1	11,016,757	11,266,479
Receivables	2	13,856,911	18,548,685
Stock of Publications	3	—	251,130
Bank Balances & Cash in Hand	4	75,930,397	75,760,428
Subscription Accrued		3,422,773	3,095,246
	Total Assets	104,226,838	108,921,968
LIABILITIES			
Gulhati Memorial Lecture Fund	5	256,327	391,359
General Fund	6	47,781,706	55,056,122
Gratuity Fund	7	7,874,160	7,285,304
Leave Encashment Fund	8	6,258,806	5,723,148
Corpus Fund-WID Prizes	9	2,607,098	2,432,501
Security From Tenant	10	24,632,200	24,632,200
Subscription Received in Advance	11	2,373,520	4,086,770
Sundry Creditor, Payables & Provisions	12	10,929,975	9,271,440
Duties & Taxes Payable	13	1,513,046	43,124
	Total Liabilities	104,226,838	108,921,968

As per our separate Report of even date attached

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

Sd/-
Arvind Mongia
Partner
Membership No. 085176

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

Sd/-
Sahdev Singh
Director

Sd/-
Ashwin Balwant Ray
Secretary General

Places: New Delhi
Dated: 30th May 2018

**INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE
INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR FROM 1ST APRIL 2017 TO 31ST MARCH 2018**

PARTICULARS		2017-18 Amount INR	2016-17 Amount INR
INCOME			
Membership & Subscriptions	14	16,673,089	16,771,646
Sale of Publication	15	1,063,971	1,166,292
Special Contribution to the Budget	16	62,700	5,513,406
Interest on Fixed Deposits	17	4,607,794	3,245,951
Other Incomes	18	23,918	1,090,061
Rent and Provision of Services on Let Out Property		49,263,828	47,725,895
Special Subscriptions		—	3,896,642
Closing Stock	3	—	251,130
Total		71,695,300	79,661,023
EXPENDITURE			
Opening Stock of Publications	3	251,130	241,800
Compensation for Secretary General	19	3,938,238	3,667,644
Salaries & Allowances	20	28,538,103	28,645,480
Superannuation Relief to Retd. Employees		3,397,226	3,541,647
Service & Maintenance	21	5,052,653	4,543,796
Taxes and Utilities	22	16,978,262	16,773,753
Rehabilitation or Refurbishing and Maintenance of ICID CO Building	23	3,529,600	255,108
Publication, Knowledge Management and Dissemination	24	4,156,766	3,457,695
Conference Expenditure	25	2,527,464	1,459,985
Cooperation with Other Organization		23,305	54,071
Travel Expenditure	26	1,303,723	862,574
Depreciation on Fixed Assets	1	1,486,452	1,514,683
Workshop, Training and Studies	27	956,568	554,526
Other Expenditure	28	5,705,712	4,829,209
Excess of Income over Expenditures		(6,149,902)	9,259,052
Total		71,695,300	79,661,023

As per our separate Report of even date
attached

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

Sd/-
Arvind Mongia
Partner
Membership No. 085176

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

Sd/-
Sahdev Singh
Director

Sd/-
Ashwin Balwant Ray
Secretary General

Places: New Delhi
Dated: 30th May 2018

**INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE
RECEIPT AND PAYMENT ACCOUNT
FOR THE YEAR FROM 1ST APRIL 2017 TO 31ST MARCH 2018**

PARTICULARS		2017-18 Amount INR	2016-17 Amount INR
RECEIPTS			
Cash & Banks (Balance Brought Forward)	29	75,760,429	67,442,621
Membership Subscriptions	30	16,742,447	15,170,429
Sale of Publications	31	1,089,818	80,988
Special Contribution to the Budget	32	62,700	5,096,124
Interest on Fixed Deposits	33	4,797,114	3,732,251
Special Subscription		—	3,743,474
Other Receipts	34	1,459,371	5,470,196
Rent and Provision of Services on Let Out Property		47,789,130	47,040,531
Income Tax Refund	35	—	305,180
Total		147,701,010	148,081,793
PAYMENTS			
Compensation package for Secretary General		3,938,238	3,656,094
Salaries and Allowances	36	27,224,770	24,727,620
Superannuation Relief to Retired Employees		3,397,226	3,541,647
Services & Maintenances	37	5,103,228	4,782,454
Taxes and Utilities	38	16,983,611	25,929,090
Rehabilitation or Refurbishing and Maintenance of ICID CO Building	39	3,529,600	255,108
Publications, Knowledge Management and Disseminations	40	4,158,824	3,457,695
Conference Expenditure	41	2,243,164	1,013,356
Cooperation with Other Organisation		23,305	54,071
Travel Expenditure	42	1,303,723	862,574
Workshops, Trainings and Studies	43	1,016,574	494,520
Purchase of Fixed Assets	44	1,276,721	177,474
Other Payments	45	1,571,629	3,369,661
Cash & Banks (Balance Carry Forward)	29	75,930,397	75,760,429
Total		147,701,010	148,081,793

As per our separate Report of even date
attached

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

For P.K. Chopra & Co.

Chartered Accountants

Firm Registration No. 006747N

Sd/-

Arvind Mongia
Partner

Membership No. 085176

Sd/-
Sahdev Singh
Director

Sd/-
Ashwin Balwant Ray
Secretary General

Places: New Delhi

Dated: 30th May 2018

**PROPOSED REVISED BUDGET 2018-2019 AND PROPOSED BUDGETS 2019-2020,
PRELIMINARY BUDGET 2020-2021 AND FORECAST BUDGET 2021-2022**

	Proposed Revised Budget 2018-2019	Proposed Budget 2019-2020	Proposed Preliminary Budget 2020-2021	Proposed Forecast Budget 2021-2022
I RECEIPTS				
1. Membership Subscriptions	17,249,000	19,295,000	19,295,000	19,295,000
2. Sale of Publications	1,205,000	1,305,000	1,305,000	1,305,000
3. Special Contribution to ICID Budget	6,795,000	3,347,500	9,360,000	16,445,000
4. Interest on Fixed Deposits	4,852,000	5,167,000	5,167,000	5,167,000
5. Other Receipts	1,875,000	5,614,000	975,000	775,000
6. Rent and Maintenance Charges	49,264,000	58,132,000	58,132,000	58,132,000
Total Receipts	81,240,000	92,860,500	94,234,000	101,119,000
II EXPENDITURE				
1. Compensation Package for Secretary General	4,136,000	4,343,000	4,561,000	4,790,000
2. Salaries and Allowances	24,707,000	27,538,000	29,721,000	33,329,000
3. Superannuation Relief to Retired Employees	3,568,000	3,747,000	3,935,000	4,132,000
4. Service & Maintenance	6,160,000	6,647,000	7,003,000	7,229,000
5. Taxes & Utilities	17,570,000	19,986,000	20,018,000	20,051,000
6. Rehabilitation, Refurbishing and Maintenance of ICID CO Building	2,800,000	1,800,000	500,000	1,300,000
7. Publication, Knowledge Management and Dissemination	4,627,000	5,432,000	5,132,000	5,132,000
8. Conference Expenditure	2,100,000	2,800,000	3,700,000	2000000
9. Cooperation with Other Organisations	300,000	360,000	300,000	300,000
10. Travel Expenditure	2,400,000	2,900,000	2,900,000	2,900,000
11. Purchase of Office Equipments	800,000	1,500,000	1,500,000	1,500,000
12. Workshops, Training and Studies	3,870,000	4,000,000	4,000,000	4,000,000
13. Other Expenditure	1,150,000	1,050,000	1,300,000	1,050,000
Total Expenditure	74,188,000	82,103,000	84,570,000	87,513,000
Surplus/(Deficit)	7,052,000	10,757,500	9,664,000	13,606,000



**REGISTRATION AND FEE STRUCTURES FOR THE
FORTHCOMING ICID EVENTS**

Events Name/ Venue / Year	9th International Micro Irrigation Conference, 16-18 January 2019, Aurangabad, India	3 rd World Irrigation Forum (WIF3) and 70 th International Executive Council Meeting, 1-7 September 2019, Bali, Indonesia	24 th ICID Congress and 71 st IEC Meeting, 22-28 September, 2020, Sydney, Australia	5th African Regional Conference on Irrigation and Drainage (ARCID), 16-19 March, 2020, Rabat, Morocco
	Rate	Rate	Rate	Revised Rate
Full Registration	\$ 500	\$ 800/750*	\$ 800	\$ 350
Non-Member Fee	--	900	\$ 900	\$ 400
Young Professional (International)	\$ 250	\$ 400	\$ 400	\$ 175
Young Professional (Local)	\$ 100	--	--	\$ 100
Local Delegates	\$ 200	\$ 200	\$ 800	\$ 150
Retired Professionals (International)	\$ 250	\$ 400	\$ 400	\$ 150
Retired Professional (Local)	\$ 100	--	--	\$ 150
Accompanying Persons (International)	\$ 200	\$ 300	\$ 300	\$ 150
Accompanying Persons (Local)	\$ 100	--	--	\$ 150
Delegates from Low Income	--	--	--	\$ 300
*As approved in 37 th Meeting of PFC (67 th IEC)				





LETTER OF AGREEMENT (LOA) FOR HOSTING ICID EVENTS

This Letter of Agreement (herein referred to as the Agreement) is concluded between: INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID), 48, Nyaya Marg, Chanakyapuri, New Delhi, 110021, INDIA, (herein referred to as "ICID")

And

[Organizing Legal Entity] on behalf of [Name of Host NC] and Address, (herein referred to as "Host NC")

Whereas, the [Name of Host NC] has been approved by ICID to host the [Name of 'The Event'], referred to as 'The Event', from [dates of 'The Event'],

This 'Agreement' is being entered into between the two parties to ensure a smooth and successful organization of 'The Event' in accordance with its objectives and in accordance with the ICID Constitution and By-laws. 'Form A' submitted by the 'Host NC' as an intent to organize 'The Event' and approved by IEC at its [Refer to resolution of IEC accepting the intent] forms part of this 'Agreement'.

1. Basic Requirements

- 1.1 'Host NC' should set up an Organising Committee and related sub-committees (such as technical, event management, accommodation, transport, reception, exhibition security, etc.) at the national level, 24 months prior to 'The Event'. Among others, at least one member of the NC that has attended at least two ICID events and those who have been involved in the bidding of 'The Event' should be members of the important committees such as organizing, event management etc. One of the organizing committee members should, preferably, attend the ICID events leading up to 'The Event' in the host country.
- 1.2 It is recommended that the Organizing Committee should employ/hire services of a professional event/Conference management agency, having suitably qualified persons, at least 12 to 24 months in advance of 'The Event'
- 1.3 The NC's representatives or chairs of the respective sub-committees should supervise activities of such hired agencies and coordinate with ICID Central Office (ICID CO) in New Delhi, India. It is desirable that the NC's designated representatives, in-charge of arrangements, have attended previous IEC meetings and are familiar with the various requirements.
- 1.4 Promotion and dissemination of information about 'The Event' shall be the joint responsibility of the 'Host NC' and the ICID CO as described in **Annex I** [Responsibilities for promotion and dissemination of 'The Event'].

2. The Venue

- 2.1. Identify the venue for 'The Event' at least 24 Months prior to 'The Event'. The venue should have the facilities of a modern convention centre with the minimum facilities as listed in **Annex II** [Facilities required at the venue]. 'Host NC' shall select a Venue, with excellent public transportation arrangements and easy accessibility to the reasonably priced Hotels
- 2.2. 'Host NC' shall provide facilities in accordance with **Annex III** [Facilities required for ICID CO (Secretariat) at the venue] for the efficient functioning of ICID CO team and oversee arrangements at the venue of 'The Event'. 'Host NC' should arrange for separate offices for the President, Secretary General, Professionals of ICID at a convenient location in the venue so that it is easily accessible to the participants along with a separate room for workbody Chairs for preparing minutes / reports, etc with all facilities described in **Annex III**.
- 2.3. An international Exhibition should be arranged, as far as possible, along with 'The Event' with provision for displays by ICID CO and other NCs.

3. Accommodation

- 3.1 'Host NC' should negotiate special rates with local Hotels near the venue, as far as possible, to accommodate participants especially from abroad, requiring around 300 rooms, covering two or three different tariff rates. The room reservation and cancellation policy shall be clearly spelt out on website of 'The Event'.
- 3.2 The 'Host NC' should also explore the availability of accommodation with low tariff rates for the use of young professionals and some other delegates from developing countries.
- 3.3 'Host NC' should arrange and bear full lodging cost for accommodation for the President (suite), the Secretary General, the CO Professionals (2 nos.) in case of WIF / Congress and (1 no.) for IEC/Miro Irrigation Conference (MIC)/International Drainage Workshop (IDW)/Regional Conference (RC), in a good hotel nearest to the venue.
- 3.4 If the venue of the event is more than 1.5 km away from the hotel accommodation housing 10 participants or more, the 'Host NC' may provide shuttle services at the start and end of the proceedings on all days. For multiple locations of hotels, round trip shuttles can be arranged. Information about the same may be provided to delegates upon booking of accommodation.

4. Registration

- 4.1 'Host NC' should make arrangements to open the online registration at least six months prior to 'The Event' with early bird registration up to 90 days prior to 'The Event' and thereafter registration at the full price.
- 4.2 Facility should be provided for payment of registration (the online registration) using at least the major international credit/debit cards. The policy for cancellation of registration and refund of fee shall be clearly defined on the website.
- 4.3 Provision/Options in the registration fee should be made for separate registration fee for (i) all the events, (ii) daily registration and (iii) specific technical events such as workshop/seminar etc. as approved by IEC and given in **Annex IV**.
- 4.4 On the spot registration should preferably be opened on the afternoon of the previous day of 'The Event' commencement.
- 4.5 'Host NC' will provide for free registration for President, Secretary General, CO Professionals (2 nos.) in case of WIF / Congress and (1 no.) for IEC/MIC/IDW/RC, ICID International partners (5 nos.), Keynote speakers of the opening ceremony (max. 5 nos.) and Young Professionals (5 nos.).

5. Social Programs and Technical Tours

- 5.1 Welcome dinner/ receptions, hosted by the 'Host NC' or other organizations/NCs should be planned in the evenings and the venue should preferably be as close to the venue of meetings as possible. In case the venue for the dinners/reception events is away from the venue, transportation should be arranged to take the delegates to the venue of the dinner/ reception and dropping them back to their hotels.
- 5.2 Short cultural programmes and entertainment events may be performed during the receptions.
- 5.3 The Organizing Committee should assist NCs desirous of hosting such receptions to promote the future Congress/Forum/IEC meetings.
- 5.4 Half-day or full-day sightseeing trips within the host city or nearby can be arranged for accompanying persons on the days of the meetings and their costs built in the Accompanying Persons' registration fee. At least two such tours/some interesting programmes shall be included as part of the accompanying persons registration fee. 'Host NC' may also arrange some additional sightseeing and cultural tours during 'The Event' at a reasonable cost exclusively for the accompanying persons.
- 5.5 'Host NC' should organize technical tours for the delegates after the completion of 'The Event' duly taking into account the issues listed in **Annex V** [Arrangement for study tours].

6. Coordination with ICID Central Office (ICID CO)

- 6.1 The 'Host NC' will nominate one focal person for day to day coordination with ICID CO.
- 6.2 Arrangements shall be made by 'Host NC' for properly receiving the consignment (normally weighing about 100 kg or more) sent by ICID CO by air freight containing conference material, publications, plaques etc., for free distribution / presentation during 'The Event'.

- 6.3 'Host NC' should arrange to get the conference material cleared from the customs in the host country. The 'Host NC' should identify the name of the person along with full postal address, e-mail and mobile, receiving the consignment on behalf of ICID Central Office.
- 6.4 'Host NC' should arrange/facilitate the printing of the material (Abstract Volume/Proceedings etc.) required for distribution during 'The Event' in the host city at the cost of ICID CO.
- 6.5 'Host NC' would also arrange for access to the venue by the ICID CO staff one day prior to the commencement of 'The Event' for overseeing the arrangements at the venue for the opening ceremony and other sessions, pre-event meetings and to set up CO office.
- 6.6 At least two WebEx meetings shall be organized between Host NC and ICID Central Office for prior review and finalization of the arrangements for the event. If any event managers have been appointed, they may also participate in the WebEx meeting.

7. Technical Aspects

- 7.1 An International Technical Advisory Committee (ITAC) shall be constituted by ICID for the Congresses and World Irrigation Forum in consultation with the 'Host NC' to oversee the technical aspects of 'The Event', in which a minimum of five members from the host NCs are nominated.
- 7.2 In addition, an International Steering Committee (ISC) shall be set up by ICID for World Irrigation Forum under the co-chairmanship of President of ICID and Chair of the 'Host NC' and 2 other senior members from each party, to oversee the overall preparation and successful conduct of the Forum.
- 7.3 Call for papers, arrangement for receiving the abstracts/papers, review by international experts (preferably through EasyChair portal) and issue of guidelines to authors for preparation as detailed in **Annex VI** [Arrangements for conduct of technical sessions] shall be the responsibility of ICID CO under the guidance of ITAC. This also includes identifying session officers: Chair, Vice Chair, Secretary/ Rapporteurs (YPs), Session Assistants, etc for different sessions, in consultation with ITAC and the Host NC.
- 7.4 ICID CO shall be responsible for bringing out the Pre- and Post- Event proceedings, including its printing and dissemination.
- 7.5 There will be events where awards / plaques/ recognitions from ICID will be made as a part of the proceedings. The Host NC shall facilitate organizing such award ceremonies with ensuring presence of high level dignitaries to hand over the awards to the recipients.

8. Financial Aspects

- 8.1 'Host NC' shall bear all the financial costs related to the successful organization of 'The Event' including the related financial obligations as given in **Annex VII** [Financial Arrangements].
- 8.2 'Host NC' should submit detailed 'Financial Returns' in Form B (**Annex VIII**) to the Secretary General within three months of 'The Event' in order to account for and incorporate contribution to the ICID Budget.

9. Protocol Arrangements

- 9.1 'Host NC' shall make all protocol arrangements for the Ministers and High-Level Officials attending 'The Event', which shall be initiated by the participating National Committees at least 30 days in advance. The 'Host NC' shall extend invitation to the identified Ministers and High-Level Officers as per the protocol followed in the host country.
- 9.2 President ICID is the head of an organization with 60 or so member countries and needs to be extended the appropriate courtesies. The 'Host NC' shall sound their respective protocol departments about the status of the President of ICID to extend courtesies befitting their position as President, ICID during various functions at 'The Event'.

10. Settlement of Disputes

- 10.1 Any dispute between 'ICID' and the 'Host NC' arising out of the interpretation or execution of this 'Agreement' shall be settled in consultation with ICID Management Board.

11. Amendments

Any amendment to this 'Agreement' shall be effected only on the basis of written mutual consent by the Parties.

12 The present 'Agreement' shall enter into force upon signing by both Parties and shall remain in force for the duration from the signing of this 'Agreement' to a period thereafter as may be necessary for all matters relating to any of its provisions to be settled (generally three months after 'The Event' or till the eligible share of registration fee is received in the ICID CO). For detailed information about the proposal to conduct ICID events, kindly visit Section 4 of Handbook of Procedures, available at http://www.icid.org/handbook_procedure.pdf governing the guidelines for preparation and conduct of International Executive Council Meetings and ICID Congresses/World Irrigation Forum and Conferences.

Signature (Chairman, Host NC)
Signed on behalf of the [Name of Host National
Committee]

Signature (Secretary General, ICID)
Signed on behalf of the International Commission on
Irrigation and Drainage (ICID)

Date:

Date:



RESPONSIBILITIES FOR PROMOTION AND DISSEMINATION OF THE EVENT

1. Host NC to set up a dedicated event web site (at least 2 years prior to the Event). CO should provide a permanent link from the ICID website to the event website as soon as the event website is launched.
2. Host NC should issue three announcement bulletins in English in consultation with CO as per the schedule and contents given below.
 - 2.1 First announcement: Twenty-four months before the event giving the following details:
 - (a) Venues of IEC Meetings and Congresses / World Irrigation Forum,
 - (b) Introduction of ICID,
 - (c) Logo designed for the Congress / World Irrigation Forum,
 - (d) Member countries and Year of Joining ICID,
 - (e) Letter of invitation from the President of ICID,
 - (f) Letter of invitation from the Chairperson of the Congress / World Irrigation Forum Organizing Committee,
 - (g) Letter of invitation from the Chairman of Host National Committee,
 - (h) Information on Weather, Currency and Banking, Voltage and Power Supply,
 - (i) Important dates to remember,
 - (j) Congress Theme, Questions and their Scope/ World Irrigation Fora Theme and sub-themes.
 - (k) Preliminary programme
 - (l) Organizing Committee,
 - (m) Preliminary registration form.
 - 2.2 Issue of Second announcement at least 12 months prior to the event giving the following details:
 - (a) Updated information given in the first announcement,
 - (b) Schedule of Preliminary Program
 - (c) List of National Organizing Committee Members,
 - (d) Call for Papers, with guidelines for preparing abstracts and papers.
 - 2.3 Issue of Third/Final announcement: six months prior to event giving the following details:
 - (a) Theme, sub-themes, supporting events etc.
 - (b) Symposium, Special Session, and Seminars, if any,
 - (c) Draft final programme,
 - (d) Exhibition information,
 - (e) Itinerary of accompanying persons tours (during the event) and technical tours (after the event),
 - (f) Detailed Information on Hotels/Accommodation,
 - (g) Cancellation policy and procedure: refund of hotel charges and registration fee;
 - (h) Registration Form
 - (i) Travel 'Guide Book' covering airport transfers, local transport and other information as considered relevant for visiting the host country.
3. Mail the announcements and any other promotional material directly to member countries of ICID, the regional and international organizations, the press and social media. The host NC may avail the consular services of their country in various countries for extending invitations and promoting the event at the official level.

4. Host NC should organize promotional events at the country level for encouraging participation of all the stakeholders, young professionals and students.
5. CO shall bring out information about the Host NC and the country in its dissemination channels with support from the Host NC in preparing technical material to introduce the history and current status related to irrigation, drainage and flood management of the country in English.
6. Host NC should report progress on the preparation of the Congress / World Irrigation Forum at IEC meetings.
7. Host NC may also consider organising a reception during other ICID annual events prior to the said event being Hosted by the NC.
8. By keeping, close contact with the ICID Central Office, the final detailed programme should be edited and completed at least two months before the Congress/Forum.
9. CO should be kept informed of the latest tally of the participants registered and updated lists of NCs and names of their representatives attending the IEC meetings, in order to allow the ICID Central Office to send reminders, where required.
10. The Registration Kit, in the form of a bag/folder should contain summary sheet of articles in the registration kit, badge, floor plan of venue, a pocket-sized detailed programme, map of city including tourist leaflet, hotel addresses and details, study/technical tours and related materials, list of participants and contact details, memento (optional) and material from ICID Central Office, if any.



FACILITIES REQUIRED AT THE VENUE**1. Meeting Rooms**

- 1.1. Venue should be equipped to conduct about 30 meetings of Workbodies and about 15 side meetings that take place along with each IEC meeting, with eight to ten meetings running in parallel.
- 1.2. The Convention Center should be large enough for the meetings to proceed efficiently and comfortably with proper acoustics, seating and writing desk arrangements.
- 1.3. The dais and IEC meeting hall in general would preferably be decorated tastefully with banners displaying the Event name, the logos of the host country and ICID etc.
- 1.4. Reception Hall should have separate counters for registration of delegates, invitees, hotels, transportation, tours and travel (for rerouting, reconfirmation of travel bookings), money exchange, medical facilities, messages, and other services.
- 1.5. The hall for opening and closing ceremonies should have a capacity of up to 1000 persons; the Capacity of hall for IEC meeting should be for about 300 persons; the meeting rooms for the Permanent Committees should be between 100-150 persons; the meeting rooms for ICID Working Groups should be for 40 - 60 persons.
- 1.6. Provide location indicators/markers to guide participants at strategic locations en-route meeting halls.
- 1.7. Conference Hall for the IEC meeting should be equipped with seats with desks, having microphones, audio-visual aids and a large projection screen and other additional projection screens for all the participants including those sitting on the dais.

2. Other Arrangements

- 2.1. Provide chairs and small tables in the reception hall or near the registration counters and at different places at the venue for small groups of delegates wishing to work or talk or wait.
- 2.2. Provide a NC display area in the 'Conference Exhibition Area' to exhibit their past achievements, present activities and future plans (free of cost to NCs). Requirements of space by NCs is ascertained in advance by the host NC in consultation with ICID. A wall space of about 400 m² will be required to accommodate exhibits (mainly posters) from active NCs of ICID. An average about 5 to 8 m² of wall space may be allotted to each NC for such display, on first-cum-first-served basis. Provide spacious tables with display fix-on boards with space for about 15 posters (0.8 m x 1.2 m (width x height) or A-0 size) for this display.
- 2.3. The accompanied person/Technical tour desk should be located in the registration area and close to the information desk and be manned by a travel agent. The person could also be assigned to sort out delegates' individual air travel problems, changes, reconfirmation, etc.
- 2.4. Arrange for return journey reconfirmations and facilitation of change of travel plans for participants.
- 2.5. Organizers preferably would have to arrange their representatives or a designated travel agency to meet delegates at the airport and guide them to the hotels, where they are accommodated. The host NC may provide transport to the hotels or extend assistance to delegates in reaching their hotels.
- 2.6. Provide a 'Message Board' to display daily news bulletin/ messages from the host NC. Also provide services of a knowledgeable professional to function as an editor for drafting the daily news bulletins and provide a place for him near ICID stall to receive news/information.
- 2.7. Provide two separate notice boards near the registration counters for the Organizing Committee official notices from, such as the current day's and following days' programme with changes in timing and venue, if any; and delegates to exchange messages (Message stick-on slips are to be provided).
- 2.8. Set up special stall at a prominent place near registration desks for sale and display of ICID publications/material. Services of two volunteers, preferably Junior Young Professionals, are to be provided at the stall to assist the representative of the Central Office to manage it from one day before the event commences to the end of the event.
- 2.9. Place mail boxes/pigeon hole stands close to registration desk for distribution of documents and exchange of information with the NCs.

Audio-Visual, Reprographic, Interpretation Facilities

- 3.1. Arrange for video recordings of Opening / Closing Ceremonies of the event.
- 3.2. Full audio recordings of all the proceedings of IEC Plenary, Main IEC meeting and other designated meetings, including interventions in English and French, as may be required. All the recordings on pen drive/CDs are to be handed over to Central Office Representative at the end of the IEC meeting.
- 3.3. Arrange for photography during opening and closing ceremonies of Congress/Forum and meetings of IEC, Workbodies, study tours, technical sessions and important social events for maintaining a record. A complete set of photos should be compiled on pen drive/CD/DVDs and provided to the Central Office immediately after the meetings for subsequent reporting (post event publications), dissemination, etc.
- 3.4. Session wise Power Point presentations made in all workbody meetings, opening / closing sessions, IEC shall be collected / compiled (in pen drives/ CD/DVDs) every day and handed over to the Central Office Representatives the same evening.
- 3.5. Hand over the material for inclusion in the ICID Newsletter/News Update for publicity to Central Office representative on the last day of the event.
- 3.6. A complete set of papers distributed to the delegates during the study/technical tours, selected photographs of tours/visits, a brief description of places visited and a general report on all the study/technical tours is to be handed over to the ICID Professional.



FACILITIES REQUIRED FOR ICID CO (SECRETARIAT) AT THE VENUE

1. Separate offices shall be provided for the President, Secretary General, and Central Office Professionals at a convenient location in the venue so that it is easily accessible to the participants. The office of the Secretary General should be located preferably next to the President's office. The office of Central Office Professionals should preferably be next to the Secretary General's Office.
2. Office rooms of President/Secretary General/Central Office shall be provided with PCs, Internet links and reprographic facilities. At least one PC with internet, printer and stationery has to be provided in each of these rooms. An easily accessible heavy-duty photocopier machine with stationery (papers, ink etc.) for use by CO Professionals shall also be provided in the CO secretariat with one extra PC, in other words two PCs for CO Secretariat.
3. Provide facilities for tea/coffee, drinking water in these offices. Assign a volunteer to attend to urgent errands from these offices, if feasible. Six extra chairs in each room are to be provided for organizing small meetings and for visitors.
4. All the 3 rooms should be separate, lockable (lock & Key arrangement) and should allow complete privacy as important and sensitive meetings, discussions are held there. These office rooms have to be kept accessible 24 hours during the period of the event. Security personnel has to be informed accordingly and special arrangement made in advance, if required.
5. Provide services of a Reprographic Assistant in 2 shifts. Provide two sets of equipment and adequate manpower for photocopying and making required number of sets of documents along with the required stationery. Often the work runs late into the night and therefore arrangement for security and access to the offices has to be ensured.
6. Space/ a separate room with multi plug-sockets and spare tables/chairs shall be provided near the Central Office Secretariat for the workbody Chairs and Office Bearers for preparing minutes / reports etc.
7. Independent transport arrangement should be made for the President, Secretary General and Central Office Professionals from hotel to venue and back as they will have to work late in the office.



**REGISTRATION FEE AS APPROVED BY
INTERNATIONAL EXECUTIVE COUNCIL (IEC)**

Sl. No.	Category	Registration Fee (US Dollars)	Registration Fee after Early Bird Discount (US Dollars)
Full Registration Details			
1	Member countries		
	Forum / Congress / Council		
2	Non-member countries		
	Forum / Congress / Council		
3	Young / Retired professionals		
	Forum / Congress / Council		
4	Local Delegates		
5	Students Registration Forum only		
6	Daily Registration Forum only		
7	Accompanying persons		
	Forum / Congress / Council		
8	Technical Tours		
9	Exhibitors Registration		



ARRANGEMENTS FOR STUDY/TECHNICAL TOURS

1. There are three categories of tours: (i) One-day or half-day tours (generally non-technical), usually held during the conference for accompanied persons, which may or may not be provided within the registration fee for the conference; (ii) Post-conference tours provided at extra cost and lasting 1-3 days; (iii) Networking tours, similar to (i) but held before the conference starts to provide an opportunity for the delegates (and accompanying persons) to get to know one another and the region of the conference at extra cost.
2. More than one choice of tour may be offered in each category. In case there is insufficient interest in a particular tour, delegates should be warned that it may be cancelled. If delegates are asked to express a second or third choice then this can help in arranging a satisfactory alternative.
3. Extra cost and time spend in the study tours must be justified by the tour's technical value. Apart from the technical value, the tours may also have touristic, social or cultural content but the technical component is paramount and essential. Some delegates have to submit reports to their sponsors and/or they may have difficulty with the language. Printed information is especially helpful here. Tours should have the necessary content relevant to the broad interest of managing water for sustainable agriculture.
4. The Tours may be arranged through a professional tour company. The costs of such tours and visits can be additional to the registration fee, but the cost should be competitive with tours available to ordinary visitors.
5. It is important that the tour is not too ambitious and keeps to time. The route should be explored beforehand knowing that the speed and access of the bus may not be easy. A time should be scheduled for each stop and on the day, the delegates should be given a strict time and signal to re-board the bus.
6. Apart from the touristic guide, one representative preferably a bi-lingual from the Organizing Committee is preferred to accompany each coach of the tour. The person provides a commentary on public address system of the places being visited and seen during the tour.
7. Participants should be provided with pocket-size programme cards in English/French for reference during the tours. The delegates should be provided with adequate information about the schedule, route and stops, including printed information sheets and maps giving names and other key information. Separate card for the programme and time table for each tour day is preferable. Provide a complete list of participants of the tour and the designated coaches they are travelling in.
8. During a tour, pre-recorded taped commentary both in English and French could be played for participants as introduction.
9. Some tour companies like to give time for delegates to stop and shop where possibly they get a commission. Such stops are not appropriate for technical tours and therefore tour companies need to exercise caution.
10. A follow-up car is useful to collect those who miss the bus to avoid the common problem of 1-2 people holding up the whole tour. This may be especially important if there is an evening event or delegates are catching planes, etc.
11. Drinking water, and possibly a toilet, should be available on the bus. If toilet facilities are unavailable or limited at certain stops, then delegates should be warned of this.
12. There should be a contingency plan for dealing with inclement weather (e.g. heavy rain), disabled access, sudden illness, accidents, etc.



ARRANGEMENTS FOR CONDUCT OF IEC AND TECHNICAL SESSIONS

1. An elevated dais for IEC meeting to seat 11 Office Bearers is to be set up on the previous evening of the day of IEC Main Session. At the head table (dais), seats are provided for President, 9 Vice Presidents and Secretary General (Office Bearers). The dais may be raised 30/60 cm above the floor with steps on either side. If the layout is rectangular, the 11 Office Bearers are to be seated on one side of the rectangle. For the Office-Bearers on the dais, the name boards should be prepared for President and the Secretary General with designation and by individual names for the 9 Vice Presidents.
2. A table and two chairs for the Central Office Professionals should be arranged near the dais on the floor. The seating plan of the meeting room should be prepared in advance in consultation with the Central Office Professionals.
3. Seating for representatives of NCs and affiliated organizations should preferably be around a rectangular table with two seats per NC. One Additional/Alternate member may sit at the back of the main representative. Countries will sit in alphabetic sequence starting with host NC, first on the left. Boards bearing names of the NCs/Countries / Presidents Hon./International Observers are to be made either in the inverted V shape or in a card shape to be inserted into a slot on the table/stand. The names of NCs/countries should to be printed on both sides.
4. Conference Hall should have arrangement for interpreters, microphones on all the tables, audio-visual aids, and simultaneous translators' boxes. Recording and simultaneous interpretation facilities (from English to French and vice-versa) is required at the inaugural (opening), AFRWG meeting, IEC Plenary and Main IEC Session (full day).
5. All microphones have to be connected to the interpreters' room and audio recorder and tested in advance for obtaining clear recordings.
6. Standard seating arrangements and facilities for Power Point presentation should be made in all the meeting rooms.
7. The daily programme containing the day-to-day events should be prepared, that should be placed at the Registration Desk and displayed on TV screens suitably placed near the registration desk and/or other prominent place(s) around the venue. Draft of this programme is decided in consultation with the Central Office professionals.
8. Availability of about 2-3 volunteers to promptly distribute and collect or transmit papers in meeting hall is necessary when requested by the Chair of the meeting or Central Office Professionals.
9. Arrange for drinking water and beverages (coffee, tea and light refreshments) twice at mid-morning and mid-afternoon for each day i.e. Health Breaks. Make drinking water available in all meeting rooms/halls also. The arrangement for working lunch during all the meeting days will be made by host National Committee.



FINANCIAL ARRANGEMENTS

1. Host NC shall present a detailed financial proposal in consultation with ICID Central Office and present the same at the meeting of Permanent Finance Committee (PFC), clearly mentioning the registration fee structure soon after the event is allotted.
2. Host should bear the registration, full lodging and study/technical tour costs in respect of President, Secretary General and two CO Professionals, for Congress / WIF and (1 no.) for IEC//MIC/IDW/RC and shall provide and pay for local secretariat assistance required by the President, the Secretary-General and the Professional(s) of ICID during and immediately before and after the Congress/WIF and meetings of the Council and work bodies.
3. One delegate from International Organizations (IO), up to a maximum of five IO, will be invited by ICID and shall be exempted from payment of registration fee.
4. The host NC shall also waive registration fees of five young professionals sponsored by ICID under the Young Professional Support Program.
5. Host NC shall fund the cash prize given for WatSave awards (Four x US\$ 2000 each) amounting to US\$ 8000 at the IEC meeting.
6. The host NC shall arrange and pay for the expenses on hiring of audio/video recording devices, including simultaneous interpretation instruments and interpreters and general photography as part of the conference expenditure.
7. Complementary space shall be provided for display of technical matters by the member NCs (Max 10) i.e. NC display in the Exhibition Area, as detailed in **Annex II – Other Arrangements**.
8. Host NC shall make special contribution to the ICID general fund. A share of the registration fee, as stipulated in By-law 7.4, in the following portion of the total registration fee received from all participants, but excluding fees for non-participant accompanying persons received from the events, is to be transferred to ICID:
 - (a) 35% share of registration fees (all delegates) from the Congress and Forums.
 - (b) 15% share of registration fees (all delegates) for the IEC meeting (with or without Regional Conference)
 - (c) 5% share of registration fees (all delegates) in case of a separate Regional Conference, International Micro Irrigation Conference, and International Drainage Workshop approved by IEC where ICID logo or banner is used.
9. The host NC shall submit detailed Financial Report in Form B [**Annex VIII**] to the Secretary General within three months of the event in order to account for and incorporate contribution to the ICID Budget.
10. The registration fee for the event shall be charged as per the following table approved by IEC two years ahead of the event.





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**FINANCIAL STATEMENT TO BE SUBMITTED FOR ICID CONFERENCES /
CONGRESSES / WORLD IRRIGATION FORA**

Name of the Event: _____

Location: _____

Organized by: _____

Date of the event: _____

A. Foreign Delegates

Sl. No.	Category	No. of delegates attended	Registration Fee (US Dollars)	Registration Fee after Early Bird Discount (US Dollars)	Actual Income (US Dollars)
Full Registration Details					
1	Member countries				
	Forum / Congress / Council				
2	Non-member countries				
	Forum / Congress / Council				
3	Young / Retired professionals				
	Forum / Congress / Council				
4	Students Registration Forum only				
5	Daily Registration Forum only				
6	Accompanying persons				
	Forum / Congress / Council				
7	Technical Tours				
8	Exhibitors Registration				
	Total				

B. Local Delegates

Sl. No.	Category	No. of delegates attended	Registration Fee (US Dollars)	Registration Fee after Early Registration Discount (US Dollars)	Actual Income (US Dollars)
1	Local Members				
2	Local Non-Members				
3	Retired Professionals				
4	Young Professionals				
5	Students Registration				
6	Daily Registration				
7	Technical Tours				
8	Exhibitors				
	Total				

C. Total Income

Total Expected Income=A + B = US \$ _____

Share to be remitted to ICID Central Office = US \$ _____

Congress / Forum -- 35%; International Executive Council (with or without Regional Conference) – 15%; other ICID events – 5%

Balance = US \$ _____

Total amount required to host the event = US \$ _____



REVISED SCHEME FOR RECOGNITION OF 'WORLD HERITAGE IRRIGATION STRUCTURES (WHIS)'

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. The Management Board (MB) at its first virtual meeting of 2018 (MB-1/18) held in Kathmandu, Nepal on 03 May 2018 decided to prefix the word 'World' to HIS as the Scheme was originally conceptualized for recognizing the individual structures forming an irrigation system, irrespective of its location.

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 "World Heritage Irrigation Structure" (WHIS). The main objectives of recognition as a "World 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 World 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 World Heritage Irrigation Structure should fulfill one or more of the following criterions.

- (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 list as an ICID World Heritage Irrigation Structure mean?

5.1 The process of documentation, recognition and appropriate management of the World 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 WHIS would be used to draw attention of the concerned governments to provide sufficient resources to maintain the WHISs. 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 WHIS 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 World Heritage Irrigation Structure (WHIS) that will be included in an “**ICID Register of World Heritage Irrigation Structures**” and presenting a “**World Heritage Irrigation Structure**” Plaque citing the salient features of the WHIS. 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 WHIS would be publicized through ICID media channels.

6.2 The National Committee should report the current status of registered WHIS 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 World 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 World 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 WHIS for maintaining the structure in good condition,
- (c) Developing material for dissemination of WHIS, 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 WHIS,

Secretary General, ICID
48 Nyaya Marg, Chanakyapuri
New Delhi 110021
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Annexure to para 6.3.1 of the WHIS Scheme

**NOMINATION FORM FOR INCLUDING IN THE
ICID REGISTER OF WORLD HERITAGE IRRIGATION STRUCTURES (WHIS)**

(Note: The information provided herein can be used by ICID to inform, market and give publicity to the WHIS 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 WHIS:

- (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 World 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/Regional Working Group
- (b) Name
- (c) Address

- (d) Seal



MANDATE OF NEWLY ESTABLISHED WORKBODIES**A. Working Group on Use of Non-Conventional Water Resources for Irrigation (WG-NCWRI)**

- (a) Exchanging knowledge, experience and data as well as networking on the topic in order to be up- to- date with new developments, methods and approaches.
- (b) Preparing comprehensive reviews and prospects with respect to different aspects of NCWR.
- (c) Producing technical manuals, guidelines or standards with respect to all NCWR including waste water, drainage water and saline/brackish water.
- (d) Organizing international workshops, seminars and meetings on the NCWR topic.
- (e) Producing documents on successful case studies with the new developments with respect to NCWR presented by the members from different countries.
- (f) Enlarging the membership of the WG by encouraging more member countries where the use of non-conventional waters is a common practice for irrigation management.
- (g) Finalizing the publication of a Technical Paper pending from the activities of the WG-PQW.

B. Working Group on Irrigation and Drainage in the States Under Socio-Economic Transformation (WG-IDSST)

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

C. Working Group on Adaptive Flood Management (WG-AFM)

- (a) To motivate ICID National Committees in various countries to set up their National Working Groups,
- (b) To provide guidance to compile, publish, update and/or translate documents on adaptive flood management;
- (c) To promote inter-disciplinary exchange of information, knowledge and experience, as well as networking on the topic for proper understanding of the technological developments in the subject;

- (d) To organize seminars at ICID Congresses and meeting to enhance deeper understanding of adaptation to floods and coping with floods including community participation with focus on impact of floods on agriculture water management;
- (e) To prepare a paper on “Adaptive Flood Management” for publication in Irrigation and Drainage (IRD);
- (f) To finalize a book on “Adaptive Flood Management”.



**THEME AND SUB-THEMES FOR
4TH WORLD IRRIGATION FORUM (WIF4), 2022
AND
THEME AND QUESTIONS FOR 25TH ICID CONGRESS, 2023**

WIF4 (2022)

Theme: Modernization of Irrigation Schemes

Sub-Theme 1: Policy and strategy for modernization of irrigation schemes

Sub-Theme 2: Technology for modernization of irrigation schemes

Sub-Theme 3: Investment for modernization of irrigation schemes

Sub-Theme 4: Performance Assessment of Irrigation Schemes

25th Congress (2023)

Theme: Tackling Water Scarcity in Agriculture

Question 64: Innovative water resources that could be tapped for irrigated agriculture?

Question 65: On-farm techniques for saving water?



**PRIVACY POLICY OF
IRRIGATION AND DRAINAGE JOURNAL**

The International Commission on Irrigation and Drainage (ICID) with its Central Office based in New Delhi, India publishes its scientific Journal Irrigation and Drainage based on an Agreement with the publisher M/s John Wiley & Sons, Inc (UK).

The publisher has developed a privacy policy for its activities that recognizes the importance of protecting the personal information collected from users in the operation of its services and taking reasonable steps to maintain the security, integrity and privacy of the collected information (see: <https://www.wiley.com/enus/privacy>). ICID submits on an annual basis information on members of its National Committees or direct members to M/s Wiley in relation to the special ICID member subscriptions that have been agreed upon with M/s Wiley. With respect to this, ICID consents to the practices described in the privacy policy of M/s Wiley. In addition, although it was not yet formulated in a formal policy, it has always been ICID's own practice, as it will be in future as well, not to use the data of members of its National Committees and of direct members for other purposes than where the data are intended for. In case of its Journal Irrigation and Drainage, this is just to enable M/s Wiley to provide the ICID members with access to the Journal, either by online access and/or by provision of printed copies. The information that is collected concerns only the contact data of the individuals and institutions that are entitled to receive Irrigation and Drainage, either by online access, or in print. ICID's Central Office collects these data by sending, on an annual basis, the draft lists of the potential subscribers to the secretariats of its National Committees with an invitation to check them and to inform ICID's Central Office on any corrections that are required. The revised list is then submitted to M/s Wiley.

The existing practice has been formalized in a policy during the International Executive Council (IEC) meeting August 12-17, 2018 in Saskatoon, Canada.



**List of participants at the
69TH INTERNATIONAL EXECUTIVE COUNCIL (IEC) MEETING
17 August 2018, Saskatoon, Canada**

(A) OFFICE BEARERS

President

1. Eng. Felix B. Reinders (South Africa)

Vice Presidents

2. Prof. Dr. Charlotte de Fraiture (The Netherlands)
3. Mr. Ian William Makin (United Kingdom)
4. Dr. (Mrs.) Irena G. Bondarik (Russia)
5. Mr. Waseem Nazir (Pakistan)
6. Er. Madhav Belbase (Nepal)
7. Er. Naoki Hayashida (Japan)
8. Dr. Yella K. Reddy (India)

Secretary General

8. Er. Ashwin B. Pandya, ICID (India)

(B) CHAIRPERSONS OF PERMANENT COMMITTEES

1. Vice President Laurie C. Tollefson (Canada), PFC
2. Vice President Ding Kunlun (China), PCTA
3. Vice President Bong Hoon Lee (Korea), PCSO

(C) PAST PRESIDENTS

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

(D) PAST VICE PRESIDENTS

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

(E) NATIONAL COMMITTEES / COMMITTEE

1.	Mr. Momir Vranes, Mr. Bryan Ward	Australia
2.	Mr. Roger Hohm; Mr. Warren Helgasun	Canada
3.	Dr. Ding Kunlun; Mr. Gao Lihui	China
4.	Mr. Hannes Puu	Estonia
5.	Mrs. Helena Äijö	Finland
6.	Dr. Dominique ROLLIN; Mr. Bernard Vincent	France
7.	Dr. Laszlo G. Hayde	Hungary
8.	Dr. Gurubachan Singh	India
9.	Ir. Adang Saf Ahmad, CES	Indonesia
10.	Dr. Saeed Nairizi	Iran
11.	Mr. Ahmed Mohammed Aziz	Iraq
12.	Dr. Marco Arcieri	Italy
13.	Mr. Sato Yohei; Mr. Mitsuo Ishijima	Japan
14.	Mr. Jo, Rae Cheng, Mr. Jang, Jung Suck	Korea
15.	Ir. Ahmad Bin Darus; Mr. Mukhlis Zainol Abidin	Malaysia
16.	Dr. Bartali El Houssine; Mr. Ahmed EL BOUARI	Morocco
17.	Mr. Bashu Dev Lohanee	Nepal
18.	Prof.dr. Charlotte de Fraiture	The Netherlands
19.	Engr. Dr. Elijah A. ADERIBIGBE; Engr. M.S. Bala	Nigeria
20.	Mr. Waseem Nazir	Pakistan
21.	Ms Pilipina P. Bermudez; Ms Josephine B. Salazar	Philippines
22.	Dr. (Mrs.) Irena G. Bondarik	Russia
23.	Mr. Abdullahi Hassan Hussein	Somalia
24.	Dr. Sylvester Mpandeli. Mrs. Mary Jean M. Gabriel	South Africa
25.	Mr. Bahrom Gaforzoda; Mr. Dilshod KIMSANOV	Tajikistan
26.	Mr. Surat Thanusin	Thailand
27.	Dr. Ragab Ragab	United Kingdom
28.	Mr. Larry D. Stephens	USA
29.	Mr. Kuang-Ming Chuang, Prof. Ray- Shyan Wu	Chinese Taipei



**IMPORTANT DECISIONS TAKEN BY THE
MANAGEMENT BOARD ON BEHALF OF IEC
BETWEEN
68TH IEC MEETING (MEXICO CITY, OCTOBER 2017) AND
69TH IEC MEETING (SASKATOON, SASKATCHEWAN, AUGUST 2018)
(And the actions taken thereon)**

Decisions by the MB Meetings	Decision of 69 th IEC
I. Virtual Management Board Meeting No.6/17, 22 November 2017 (via Web Conferencing)	
(a) MB approved the slightly modified composition of TF-GPP by interchanging the positions of PH Dr. Saeed Nairizi and President Felix Reinders.	Endorsed.
(b) MB decided to include VP Waseem Nazir (Pakistan) as a member of SC-E-THEMES.	Endorsed.
(c) MB approved the composition of a Special Task Force to explore the feasibility of establishing an independent business unit related to ICID mission, the profits of which could plough in as revenue to ICID budget.	Endorsed.
(d) MB approved the constitution of an International Steering Committee (ISC) for the 3rd World Irrigation Forum (WIF3) to provide directions, guidance and oversight on all activities and processes.	Endorsed.
(e) MB approved the constitution of an International Technical Advisory Committee (ITAC) to advise ISC on thematic topics and technical programs, etc.	Endorsed.
(f) MB approved the setting up of a Task Team (TT) to study the feasibility of single membership for regional organizations in terms of the existing constitution and similar demands that may arise from other regions such as Africa, Asia and Europe and address the issues coming out of such a proposal.	Endorsed.
II. Management Board Meeting No.1/18, 03 May 2018, Kathmandu, Nepal	
(a) MB approved the proposal for renaming of the scheme "Heritage Irrigation Structures (HIS)" as "World Heritage Irrigation Structures (WHIS)".	Endorsed.
(b) MB decided that the concerns of ICID about managing the World Water System Heritage (WSH) as a joint initiative of ICID and World Water Council (WWC) may be brought up with the WWC first through the secretariat level contacts and a better organization may be attempted at the next WWF at Dakar, Senegal.	Endorsed.
III. Management Board Meeting No.2/18, 05 July 2018 (via Web Conferencing)	
(a) MB accepted the proposal of Australian NC of ICID (IACID) for the establishment of a Task Team on Rain Water Harvesting (TT-RWH) and approved its mandate and composition.	Endorsed.
(b) MB approved the appointment of M/s. Deependra Prashad Architects and Planners (DPAP) for providing architectural consultancy and liaison works towards the construction of additional office space as part of the Central Office Building.	Endorsed.



**MEMBERSHIP OF VARIOUS WORKBODIES
(As Updated During 69TH IEC)**

I. PERMANENT FINANCE COMMITTEE (PFC)

No.	Members	Country	Remarks
1.	VPH Mr. Laurie Tollefson	Canada	Chair (2013)
2.	Mr. Naoki Hayashida	Japan	Vice President (2014)
3.	Dr. Irene Bondarik	Russia	Vice President (2014)
4.	Engr. Husnain Ahmad	Pakistan	Vice President (2014)
5.	Mr. Ali Reza Salamat	Iran	Member (2016)
6.	Dr. Marco Arcieri	Italy	Member (2017)
7.	Mr. Prof. Muhammed Bin Musa	Morocco	Member (2018)
8.	Mr. Abdul Malik Saddat Idriss	Indonesia	Member (2018)
9.	Secretary General		Member-Secretary

II. PERMANENT COMMITTEE ON STRATEGY AND ORGANIZATION (PCSO)

No.	Members	Country	Remarks
1.	Vice President Dr. Brian T. Wahlin	USA	Chair (2018), Member (2017)
2.	Ms. Kathleen Murray , Coordinator, IYPeF	Australia	Vice Chair (2018)
3.	Vice President Hon. Prof. Dr. Charlotte de Fraiture	The Netherlands	Member (2015)
4.	Vice President Hon. Mr. Ian William Makin	UK	Member (2015)
5.	Vice President Hon. Prof. Dr. Abdelhafid DEBBARH	Morocco	Member (2015)
6.	Vice President. Dr. Irene G. Bondarik	Russia	Member (2016)
7.	Vice President Mr. Waseem Nazir	Pakistan	Member (2016)
8.	Vice President Mr. Madhav Belabse	Nepal	Member (2016)
9.	Vice President Er. Naoki Hayashida	Japan	Member (2017)
10.	Vice President Dr. K. Yella Reddy	India	Member (2017)
11.	Vice President Dr. Marco Arcieri	Italy	Member (2018)
12.	Vice President Dr. Kamran Emami	Iran	Member (2018)
13.	Vice President Mr. Ahmed EL BOUARI	Morocco	Member (2018)
14.	Secretary General, ICID	ICID CO	Member-Secretary
15.	FAO representative		Permanent Observer
16.	World Bank representative		Permanent Observer
17.	GWP representative		Permanent Observer

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

II.A. Membership Status of Working Groups under PCSO

II.1 — AFRWG			
No.	Members	Country	Remarks
1.	VPH Dr. Mohamed Wahba	Egypt	Chairman
2.	Dr. Sylvester Mpanдели	South Africa	Vice Chairman
3.	Engr. Amali Abraham Amali – Young Professional	Nigeria	Secretary
4.	Mr. Jean Bernard Dambre	Burkina Faso	
5.	Mrs. Salamata Karambiri MIWENDE	Burkina Faso	
6.	Mr. Tchouadang Kadjonga	Chad	
7.	VPH Dr. Samia El-Guindy	Egypt	
8.	Eng. Omnia Hassan Ahmad Salem – Young Professional	Egypt	
9.	Representative from ETCID	Ethiopia	
10.	Representative from MADCID	Madagascar	
11.	Representative from MALCID	Malawi	
12.	Representative from AMID	Mali	
13.	Ms. Sara Boularbah – Young Professional	Morocco	
14.	Ms. El Oumlouki Kaoutar – Young Professional	Morocco	
15.	Representative from ANID	Niger	
16.	Engr. Joe Kwanashie	Nigeria	
17.	Mr. Abdullahi Hassan Hussein – Young Professional	Somalia	
18.	Eng. Mohamed Mohamud Abdi	Somalia	
19.	Eng. (Ms.) Hind Massoud Hamed Elneel	Sudan	
20.	Eng. Marwa Faisal Salman Mohamed – Young Professional	Sudan	
21.	Representative from TANCID	Tanzania	
22.	Mr. Mulako Cornelius Sitali	Zambia	
23.	Representative from ZwCID	Zimbabwe	
Observers			
24.	Mr. Jean Syroganis Camara	Italy	

25.	Mr. A. de Vito	Italy	
26.	Eng. Omer Yousef	Sudan	
27.	FAO Representative		
28.	World Bank Representative		
29.	ARID Representative		
30.	SARIA Representative		
31.	AgWA Representative		

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

II.3 —C-CONGR			
No.	Members	Country	Remarks
1.	Mr. Bryan Wards	Australia	Chair
2.	Dr. Warren Helgason	Canada	Representative
3.	Mr. Bashu Dev Lohanee	Nepal	Representative
4.	Mr. Anuj Kanwal	India	Representative
5.	Mr. M.Z. Fatah	Indonesia	Representative

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

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

II.6 — IYPeF			
No.	Members	Country	Remarks
1.	Ms. Kathleen Heuvel	Australia	Coordinator
2.	Ms. Adey N. Mersha	Ethiopia	Joint Co-ordinator
3.	Mr. Rafat Nael Al-Intaki	Iraq	Joint Co-ordinator
4.	Mr. Mika Turunen	Finland	Joint Co-ordinator
5.	Ms. Eman Ragab	Egypt	Joint Co-ordinator
6.	Mr. M. Shoaib Saboory	Afghanistan	Joint Co-ordinator

III. PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)

No.	Members	Country	Remarks
1.	VPH Dr. Ding Kunlun, Chair	China	Chair (2015)
2.	PH Peter S. Lee (UK)	UK	Member (2013)
3.	Ms. Aysen Pervin Gungör (Turkey)	Turkey	Member (2014)
4.	VPH Mr. Chaiwat Prechawit (Thailand)	Thailand	Member (2014)
5.	VPH Dr. Mohamed Wahba	Egypt	Member (2015)
6.	Mr. Ali Reza Salamat	Iran	Member (2015)
7.	Prof. Michele Perniola	Italy	Member (2018)
8.	Dr. Tsugihiko Watanabe	Japan	Member (2018)
9.	VP Dr. Brian T. Wahlin	USA	Member (2018)
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 Chairs of all Workbodies under PCTA		Ex-Officio Members

III.A. Membership Status of Working Groups under PCTA

III.B.1 — WG-BIO-FUEL			
No.	Members	Country	Remarks
1.	Dr. Fuqiang Tian	China	Chair
2.	Mr. Sanjay Belsare	India	Vice-Chair
3.	VPH Laurie C. Tollefson	Canada	

4.	Mr. Mortaza Yazdkhasti	Iran	
5.	Mr. Bassam Hayek	Jordan	Observer
6.	Dr. Salih Hamad Hamid Omer	Sudan	
7.	Mr. Abdul Wahab Siyal	Pakistan	Provisional Member
8.	Dr. Jose Reyes Sanchez	Mexico	Provisional Member

III.B.2 — WG-CLIMATE

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

III.B.3 — WG-ENV

No.	Members	Country	Remarks
1.	Prof. dr. (Ms.) Charlotte de Fraiture	The Netherlands	Chair
2.	Dr. Michael van der Laan	South Africa	Vice Chair
3.	Dr. Seija Virtanen	Finland	Secretary

4.	Mr. V.C. Ballard	Australia	
5.	Mr. Mohammad Samiul Ahsan Talucder - Direct Member	Bangladesh	
6.	Dr. Fuqiang Tian	China	
7.	Dr. Ming-Kai Hsieh	Chinese Taipei	
8.	Mr. Usamah Hashim Witwit	Iraq	
9.	Prof. N. Hacho	Japan	
10.	Dr. Choi, Joong-Dae	Korea, Rep. of	
11.	Prof. (Ms.) Eunmi Hong	Korea, Rep. of	
12.	Ir. Mohd Azmi Ismail	Malaysia	
13.	Dr. Muhammad Basharat Chaudhry	Pakistan	
14.	Dr. Yury Anatolyevich Mozhaikii	Russia	
15.	Eng. (Ms.) P.M. Jayadeera	Sri Lanka	
16.	Dr. Aynur Fayrap	Turkey	

III.B.4 — WG-MWSCD			
No.	Members	Country	Remarks
1.	VPH Franklin E. Dimick	USA	Chair
2.	Mr. V.C. Ballard	Australia	Vice-Chair
3.	Dr. Jaepil Cho	South Korea	Secretary
4.	Mr. Mohammad Sadegh Jafari	Iran	Member
5.	VPH Ragab Ragab	UK	Member
6.	Dr. Graziano Ghinassi	Italy	Member
7.	Dr. Hakan Aksu	Turkey	Young Professional
8.	Mr. Sudhakar (Direct Member), JISL	India	Member
9.	Ms. Jianxin Mu	China	Provisional Member
10.	Mr. Raquib Khan	Pakistan	Provisional Member
11.	Mr. Amali Abraham Amali	Nigeria	Member
12.	Dr. Jan Ming-Young	Chinese Taipei	Member
13.	Dr. Hesham Mostafa Mohammed Ali	Egypt	Provisional Member

III.B.5 — WG-SDTA			
No.	Members	Country	Remarks
1.	Dr. Ruey-Chy Kao	Chinese Taipei	Chair
2.	Ir. Henk P. Ritzema	Netherlands	Vice Chair
3.	Ir. Hj. Nor Hisham Bin Mohd Ghazali	Malaysia	Secretary
4.	Dr. (Ms) Hsiao-Weng Wang	Chinese Taipei	Young Professional
5.	Prof. Budi Santoso Wignyosukarto	Indonesia	Member
6.	Prof. Zhang Zhanyu	China	Member
7.	Dr. Jeongryeol Jang	Korea	Member
8.	Mr. Anuj Kanwal	India	Member

9.	Eng. Elaraby Mohamed Gomaa Elkashawy	Egypt	Provisional Member
10.	Prof. Dr. Hossam Refaat	Egypt	Provisional Member
11.	Dr. Ikuo Yoshinaga	Japan	Member
12.	Dr. Vijay K. Labhsetwar	India	Member
13.	Mr. Paavan Kuamr Reddy, Young Professional	India	Member
14.	Dr. Jo Jin Hoon	Korea	Permanent Observer
15.	Dr. Daeou Eo	Korea	Permanent Observer
16.	Mr. Robiyanto Hendro Susanto	Indonesia	Permanent Observer
17.	Mr. Harry Denecke (FAO)		Permanent Observer

III.B.6 — WG-AFM			
No.	Members	Country	Remarks
17.	Dr. Kamran Emami	Iran	Chairman
18.	Dr. Ikuo Yoshinaga	Japan	Vice-Chair
19.	Ms. Sahar Norouzi – Young Professional	Iran	Secretary
20.	Engr. Syed Mahmood-ul-Hassan	Pakistan	Member
21.	Eng. Hind Massoud	Sudan	Member
22.	Mr. Ahmad Bin Dakur	Malaysia	Member
23.	Engr. Abdullah Hassan Hussein	Somalia	Member
24.	Mr. Maurice Roos	USA	Member
25.	Mr. Olli-Matti Verta	Finland	Member
26.	Mr. R.K. Agarwal	India	Member
27.	Mr. Marcel Marchand	Netherland	Member
28.	Dr. Arthon Suttigam	Thailand	Member
29.	Dr. Rozalija Cvejic	Slovenia	Member
30.	Dr. Abdelilah Taky	Morocco	Member

III.K.1 — WG-CDTE			
No.	Members	Country	Remarks
1.	Prof. Dr. Abdelhafid DEBBARH	Morocco	Chair
2.	Dr. Young D. Kim	Korea	Vice Chair
3.	Mr. Mirza Asif Baig	Pakistan	Provisional Member
4.	Dr. Nader Heydari	Iran	Provisional Member
5.	Eng. Abu Obieda Babiker Ahmed Hassan	Sudan	Provisional Member
6.	Mr. Hasan Basri Yuksel	Turkey	Provisional Member
7.	Ms Dahile Abdulqader Abdulhameed (YP)	Iraq	Provisional Member
8.	Mr. Raad F Amein Taha	Iraq	Provisional Member
9.	VPH Dr. Mohamed Wabha	Egypt	Provisional Member

10.	Dr. Shinji Fukuda	Japan	Provisional Member
11.	Dr. Vijay K. Labhsetwar	India	Provisional Member

III.K.2 — WG-HIST

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

III.K.3 — EB-JOUR

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

10.	Dr. Biju George	Australia	Associate Editor
11.	Dr. Henk Ritzema	Netherlands	Associate Editor
12.	Prof. Waldo Ojeda-Bustamante	Mexico	Associate Editor
13.	Prof. Kendall C. DeJonge	USA	Associate Editor
14.	Prof. Saleh Taghvaejan	USA	Associate Editor
15.	Prof. Graziano Ghinassi	Italy	Associate Editor
16.	VPH Laszlo Hayde	Hungary	Associate Editor
17.	Dr. Takanori Nagano	Japan	Associate Editor
18.	Dr. Luis Garcia	USA	Member
19.	VPH Prof. Dr. Dia El Din Ahmed El Quosy	Egypt	Member
20.	Dr. Muhammad Latif	Pakistan	Member
21.	Dr. Marcel Kuper	France	Member
22.	VPH Larry Stephens	USA	Member
23.	Dr. Vijay Labhsetwar (ICID Central Office)	India	
24.	Dr. Yohei Sato	Japan	
25.	Prof. Ir. Dr. Mohd Amin bin Mohd Soom	Malaysia	
26.	Dr. Mohammad Javad Monem	Iran	
27.	Prof. Dr.-Ing. Klaus Rottcher	Germany	
28.	Prof. dr. Joong Dae, Choi	Korea	
29.	Mr. Brent Paterson	Canada	
30.	Ir. Simon Howarth	UK	
31.	Dr. Poolad Karimi	Iran	Associate Editor
32.	Prof. Jin-Yong Choi	Korea	Associate Editor
33.	Dr. Severine Tomas	France	Associate Editor

III.K.4 — TF-MTD

No.	Members	Country	Remarks
1.	VPH Dr. Ding Kunlun	China	Chair
2.	Ms. Mary Jean M. Gabriel, Chair of WG-IDM	South Africa	
3.	Dr Yu-Chuang Chang (WG-IOA)	Chinese Taipei	
4.	Dr. AK Randev, Chair of WG-SON-FARM	India	
5.	Mr. Bernard Vincent, Chair of WG-SDRG	France	
6.	VP Ian Makin, Chair of WG-M&R	Sri Lanka	
7.	Representative of FAO		
8.	Representative of IWMI		
9.	Representative of ADB		

III.K.5 — TF-WWF9			
No.	Members	Country	Remarks
1.	PH Saeed Nairizi	Iran	Chair
2.	PH Chandra Madramootoo	Canada	
3.	M. Dominique Rollin	France	
4.	VPH Dr. Shinsuke Ota	Japan	
5.	Mr. Mitsuo Ishijima	Japan	
6.	Dr. Tsugihiko Watanabe	Japan	
7.	Mr. Hassan Farahani (Young Professional)	Iran	
8.	Secretary General Ashwin B Pandya, ICID		Member Secretary

III.K.6 — WG-VE			
No.	Members	Country	Remarks
1.	Dr. Kamran Emami	Iran	Chair
2.	Mrs. Remziye Yildiz Gulagaci	Turkey	Vice-Chair
3.	Ir. Nor Hisham M. Ghazali	Malaysia	Secretary
4.	VPH Francois Brelle	France	Member
5.	Mr. Suman Sijapati	Nepal	Member
6.	Dr. Toshihiko Kuno	Japan	Member
7.	Dr. Yawen, Chueh	Chinese Taipei	Provisional member

III.O.1 — WG-NCWRI			
No.	Members	Country	Remarks
1.	Dr. (Ms.) Anna Tedeschi	Italy	Chair
2.	Dr. Wenyong Wu	China	Secretary
3.	Dr. Tapas Kumar Biswas	Australia	
4.	VPH Dr. Samia El-Guindy	Egypt	
5.	Dr. Mohamed Shaban M. Abu Salama	Egypt	Provisional Member
6.	Dr. Hussein Abdel Halim El Gammal	Egypt	Provisional Member
7.	VPH Dr. Karim Shiati	Iran	
8.	Dr. Tasuku Kato	Japan	
9.	Dr. Seung Heon Lee	Korea, Republic of	
10.	Mr. Mohamed Ouhssain	Morocco	Provisional Member
11.	Dr. Muhammad Munir Ahmad	Pakistan	Provisional Member
12.	Prof. Leon van Rensburg	South Africa	
13.	VPH Dr. R. Ragab	UK	
Permanent Observers			
14.	FAO representative		
15.	ICBA representative (UAE)	UAE	

III.O.2 — WG-SON-FARM			
No.	Members	Country	Remarks
1.	Dr. A.K. Randeve, Chairman	India	Chairman
2.	Mr. Carl Walters, Vice Chair	Australia	Vice Chair
3.	Mr. Suman Sijapati, Secretary	Nepal	Secretary
4.	Mr. Yao Bin	China	
5.	Dr. Zhang Guohua, Young Professional	China	
6.	Dr. Chen, Ching-Tien	Chinese Taipei	
7.	Dr YU-Min Wang	Chinese Taipei	
8.	Dr. Ibrahim Mohamed Mahmoud	Egypt	Provisional Member
9.	Mr. S.P. Jadhav (Direct Member), JISL	India	
10.	Prof. LB Roy, Direct Member	India	Provisional Member
11.	Mr. Hassan Shantia	Iran	
12.	Dr. Hossein Dehghanisani	Iran	
13.	Dr. Graziano Ghinassi	Italy	
14.	Dr. Akira Iwamoto	Japan	
15.	Prof. Chang Eon Park	Korea, Rep. of	
16.	Mr. Mohd Yazid bin Abdullah	Malaysia	
17.	Mr. Bashu Dev Lohane	Nepal	
18.	Mr. Siboniso Phillip Mkhali	South Africa	
19.	Eng. S. Mohanarajah	Sri Lanka	
20.	Mr. Ömer Faruk Akbulut	Turkey	
Permanent Observers			
21.	Mr. Sher Singh	India	
22.	Mr. M.S. Sudhakar (Direct Member), JISL	India	
23.	Mr. Abijit Joshi (Direct Member), JISL	India	
24.	Dr. Jano Anter	Germany	
25.	Mr. Bruno Molle (ISO)	France	
26.	FAO Representative		

III.O.3 — WG-WATER & CROP			
No.	Members	Country	Remarks
1.	VPH Ragab Ragab	UK	Chair
2.	VPH Laurie C. Tollefson	Canada	Vice-Chair
3.	Dr. K. Yella Reddy	India	Secretary
4.	Ir. Adang Saf Ahmad	Indonesia	Provisional Member
5.	Dr. P. Soman (Direct Member), JISL	India	Provisional Member

6.	Prof. Won-Ho Nam	Korea	Member
7.	Prof. Dr. Zeinab Hussien Behairy	Egypt	Provisional Member
8.	Dr. Chung-Feng, Ding	Chinese Taipei	Member
9.	Dr. Kazumi Yamaoka	Japan	Member
10.	Mr. Syaiful Mahdi	Indonesia	Observer
11.	FAO representative		Permanent Observer
12.	CIGR representative - Mr. Herbert H. Van Lier		Permanent Observer
13.	Prof. D. Wrachien	Italy	Permanent Observer
14.	ICRISAT representative		Permanent Observer

III.S.1 — WG-IDM

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

III.S.2 — WG-IOA

No.	Members	Country	Remarks
1.	VPH Dr. Hafied A. Gany	Indonesia	Chairman
2.	Dr. Kazumi Yamaoka	Japan	Vice Chairman

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

III.S.3 — WG-M&R

No.	Members	Country	Remarks
1.	VP Ian Makin	UK	Chairman
2.	Dr. Dong Bin	China	Vice Chairman
3.	Engr. Muhammad Sani Bala	Nigeria	Secretary
4.	Dr. Chih-Hung Tan	Chinese Taipei	
5.	Prof. Dr. Tarek Ahmed El-Samman	Egypt	
6.	Dr. Sanjay Belsare	India	
7.	Ir. Eko Subekti	Indonesia	
8.	Mr. Mehrzad Ehsani	Iran	
9.	Omid Moridnejad – Young Professional	Iran	Provisional member
10.	Mr. Ali Omran Ali	Iraq	
11.	Mr. Firas Hussain Ali – Young Professional	Iraq	
12.	Dr. Yohei SATO	Japan	
13.	Dr. Shinji Fukuda	Japan	
14.	Dr. Kwang-Sik Yoon	Korea, Rep. of	
15.	Mr. Mohd Yazid bin Abdullah	Malaysia	
16.	Mr. Bir Singh Dhami, Young Professional	Nepal	
17.	Mr. Usman-e-Ghani	Pakistan	
18.	Mr. Jan Potgieter	South Africa	
19.	Ms. Meral Çiçek	Turkey	
20.	Mr. Vyacheslav Rozhon	Ukraine	
21.	Dr. Brian T. Wahlin	USA	
Permanent Observers			

22.	Mr. Alan Kendall Clark	UK	
23.	FAO Representative- (Ms. Robina Wahaj)		

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

III.S.5 — WG-WATS			
No.	Members	Country	Remarks
1.	Mr. Mehrzad Ehsani	Iran	Chairman
2.	VPH Adama Sangare	Mali	Vice Chairman
3.	Mr. Mortaza Yazdekhashti - Young Professional	Iran	Secretary
4.	Ms. Jianxin Mu	China	
5.	Dr. Ray Shyan Wu	Chinese Taipei	
6.	VPH M. Hassan Amer	Egypt	
7.	Eng. (Ms) Hala Ramadan El-Sayed Ismail	Egypt	Provisional Member
8.	Dr. Mohamed El-Hagarey	Egypt	Provisional Member
9.	Dr. P. Soman – Direct Member, Jain Irrigation Systems Limited – JISL	India	
10.	Mr. Abijit Joshi – Direct Member, JISL	India	
11.	Mr. Mohammed Alaa Dheyaa - Young Professional	Iraq	
12.	Prof. Michele Perniola	Italy	
13.	Dr. Tasuku Kato	Japan	
14.	Prof. (Ms.) Kyung-Sook Choi	Korea, Rep. of	
15.	Dr. Ashfaq Ahmed Sheikh	Pakistan	Provisional Member
16.	Dr. Joe Stevens	South Africa	
17.	Eng. S. Mohanarajah	Sri Lanka	
18.	Dr. Hassan Aboalbasher Ali	Sudan	
19.	Mr. Yalçın Dalgin	Turkey	
Permanent Observers			
20.	Mr. S.P. Jadhav – Direct Member, JISL	India	
21.	IWMI Representative- Mr. Ian W. Makin	UK	
22.	FAO Representative- (Ms. Robina Wahaj)		

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

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



**Report of the 39th Meeting of the
PERMANENT FINANCE COMMITTEE (PFC)
13 August 2018: 13:30-15:00 hours (Session I)
13 August 2018: 15:30-17:00 hours (Session II)
Saskatoon, Saskatchewan, Canada**

Members Present: (1) Vice President Hon. Mr. Laurie Tollefson, Chairman (Canada, 2013); (2) Mr. Hao Zhao (China, 2012) (Represented by Mr. Gao Lihui); (3) Vice President Naoki Hayashida (Japan, 2014); (4) Vice President Dr. Irene Bondarik (Russia, 2014); (5) Mr. Ali Reza Salamat (Iran, 2016) (Represented by PH Mr. Saeed Nairizi); (6) Mr. Prof. Muhammed Bin Musa (Morocco, 2018); (7) Mr. Abdul Malik Saddat Idriss (Indonesia, 2018) and (8) Er. Ashwin B. Pandya, Secretary General, ICID.

Observers Present: (1) Dr. K.Yella Reddy (India); (2) Dr. Bartali El Houssine (Morocco); (3) Mr. Mohammed Ben EL Momoune (Morocco); (4) Mr. Bong Hoon Lee (Republic of Korea); (5) Mr. Nita Yuliaty (Indonesia); (6) Mr. Bashu Dev Lohanee (Nepal); (7) Ir. Adang Saf Ahmad (Indonesia); and (8) Mr. Mohammad Zainal Fatah (Indonesia)

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

1. A conversion rate of US\$1 = ₹ 66 was assumed in the forecast for the FY 2017-18 on the basis of exchange rate in the preceding 15 months commencing from April 2016 to June 2017. Subscriptions actually received were of course converted based on the prevalent rate. The difference in the subscription budgeted receipts and the subscription actual receipts due to change in exchange rate are accounted for as part of 'Other Receipts'.
2. Based upon average exchange rate of US\$ 1 for the last fifteen months from April 2017 to June 2018, an exchange rate of US\$ 1 = ₹ 65 has been assumed for the Revised Budget (proposed) for the FY 2018-2019, Budget for FY 2019-20 and Preliminary Budget for 2020-2021 and Forecast Budget for the FY 2021-2022.

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

3. The Committee concludes about the retirement of Mr. Hao Zhao (China) and Ms. Serpil Koylu Dalgin (Turkey) on completion of six years on the committee and the discontinuation of the provisional membership of Mr. Hazim Ibrahim Othman Mohammed (Iraq) on account of his absence and non-contribution to the PFC activities. PFC called for the nominations from the floor and the nominations from Morocco Prof. Muhammed Bin Musa of Agriculture engineering High School and from Indonesia of Mr Abdul Malik Saddat Idriss VP, INACID were accepted restoring the requisite strength of the committee. PFC suggested the CO to call the fresh nominations from NCs at least to keep the minimum requirement of the members as the present membership consist of only nine members including new nominations.

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

4. Based on the report of DMA Sub-committee, the PFC recommended and IEC approved Direct Member of ICID of the following:

Sl. No.	Name of Applicants	Country	Type of Membership Applied for
1.	Mr. Sajit Ali Bhutto	Pakistan	Individual (3 Years)

5. PFC noted that Ministry of Agriculture, Madrid, Spain; Institute of Hydraulics and Rural Water Management, IHLW at BOKU-University, Vienna, Austria; and Dubai Municipality have approached ICID Central Office for Direct Membership.

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

6. PFC noted with regret that National Committees of Chad, Madagascar, and Tanzania are continuing in membership subscription arrears of three years, besides the membership subscription for the year 2018 as far. Several requests have been made to these NCs to clear their balance of subscription. PFC considered and recommended to IEC to apply By-law 13.2 to above National Committees declaring them as "Associate Members" from 1st January 2019 if their dues are not cleared by 31st December 2018. PFC noted that Ukraine have paid the membership subscription for the year 2015 and are also in the process of payment of membership subscription dues for other years.

7. Ethiopia, Malawi and Niger have not cleared their membership dues for the years 2016 and 2017, besides the current year 2018, their membership dues are yet to be received. PFC considered and recommended IEC to apply By-law 13.1 to these National Committees debarring them from holding office whether it be as Office Bearer or as a member of a work body until such time the arrears are paid.
8. In case of Tajikistan, arrears are existing for the past years 2015 and 2016. However, Tajikistan have paid their subscription for the years 2017 and 2018. PFC recommends that the pursuasion may be continued with the National Committee to clear their dues for the past gap period. However, their membership status may be treated as active. PFC agreed to the suggestion that for further promoting the activities of ICID in central Asian region, Russian language based workshops/ events may be planned for the region to promote the membership.
9. PFC noted with regret that Swiss National Commission on Agro-Systems and Land Improvement (CH-AGRAM), housing Swiss NC, has been dissolved on 31st March 2018. However, the PFC asked to ICID Central Office to continue efforts to bring back the Swiss National Committee in ICID fold through a successor organisation.
10. PFC recommended that those national committees who have some issues to pay subscription, they may be encouraged by ICID to become Direct Membership to ensure continuity.

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

PFC Minutes Item 4.1: 68th IEC and 23rd Congress, Mexico, 08-14 October 2017

11. PFC thanked The Mexican National Committee of International Commission on Irrigation and Drainage (MXCID) for committing to make a special contribution to ICID budget amounting to 35% share from the registration fee collected for the 68th IEC and 23rd Congress meetings held in Mexico, Mexico from 08-14 October 2017. The Committee recommends that IEC may like to record its appreciation to MXCID for the successful organization of 68th IEC and 23rd Congress meetings.

PFC Minutes Item 4.2: 8th Asian Regional Conference, Kathmandu, Nepal 02-04 May 2018

12. PFC thanked the Nepal National Committee of ICID (NENCID) for committing to make special contribution to ICID budget amounting to 5% share from the registration fee collected of the 8th Asian Regional Conference (ARC) held in Kathmandu, Nepal from 02-04 May 2018. The Committee recommends that IEC may like to record its appreciation to NENCID for the successful organization of 8th Asian Regional Conference (ARC).

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

13. PFC noted that as per minutes of the 37th meeting of PFC of 67th IEC Meeting that the financial arrangements for the 9th Micro Irrigation Conference at Aurangabad, India in January 2019; 70th IEC and 3rd World Irrigation Forum (WIF), Bali Indonesia, September 2019; and 71st IEC, 24th Congress, Sydney, Australia, 22-28 September 2020 have already been approved. However, INACID representatives pointed out that even after getting the support from Indonesian government, the rates of participation will have to be maintained at \$800 to keep the financial viability of the event. Accordingly, it was accepted that the normal fees for participation may be kept at US\$800 with early bird fees as US \$ 750. For non-members category, the fees may be kept at US\$900.

14. PFC recommended IEC to approve proposal submitted by Morocco NC (ANAFIDE) for organising 5th African Regional Conference (5th AfRC) at Rabat, Morocco in March 2020 according to the presentation from its representative. Morocco further requested that the fee structure proposed by them may be approved as they are dealing with a special region with difficult economic conditions.

15. The NC of Morocco suggested to approve the registration fees of all the categories as mentioned below in tabular format. The PFC recommends IEC to approve the revised and reduced registration fees suggested by NC of Morocco which needs to be appreciated as this will result in greater participation in the respective annual events of ICID.

16. Registration fee structure of these events is at Annexes to 69th IEC Resolutions under **Annex R1.3, page 19**. Attempts may be made to keep the fee structure as low as feasible to promote better participation in the events.

PFC Minutes Item 6: To discuss the audited accounts of ICID for the year 2017-2018 and recommend to the IEC

17. The Committee considered the Audit Report of M/s P.K. Chopra & Co., Statutory Auditors for the financial year 2017-2018 presented in Annexes to 69th IEC Resolutions under **Annex R1.1, page 13**. The PFC having been satisfied with the report, recommended that the Audit Report for the FY 2017-2018 submitted by M/s P.K. Chopra & Co., be approved.

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

19. PFC noted with satisfaction that HSBC Bank, London account has been closed as per the decision of PFC in its 38th meeting of 68th IEC and an amount of US \$ 167,962.91 has been credited to ICID Current Account with Canara Bank , New Delhi, India after a lot of sustained efforts by SGH Er. Avinash C. Tyagi together with the Finance Section of ICID. PFC recommends IEC to give appreciation to SGH Er. Avinash C. Tyagi for his endeavors.

20. The PFC was informed that as per the information provided in 38th PFC of 68th IEC, Mexico, ICID has registered and shifted PF accounts of its staff members to Employees' Provident Fund Organisation (EPFO) with effect from 01 April 2013 in place of maintaining and running de-recognized EPF Trust w.e.f. 01 April 2013. According to the revised audited statement of ICID EPF trust, Members of EPF Trust have been paid their balance in ICID EPF as on 31st March 2013 after keeping a nominal balance to take care of any exigencies. PFC further noted that appeals have been filed against two income tax (IT) notices to EPF Trust for the year 2014-15 and 2015-16 amounting to INR 3.81 million which are under consideration of Income Tax Department and total contingencies of about INR 4.0 million will have to be settled before commencing the dissolution process of the ICID EPF Trust.

PFC Minutes Item 7: Budget and Expenditure for the FY 2017-2018

21. The Committee noted that there has been an overall deficit of ₹ 5.40 million (US\$ 81,818) against a deficit of ₹ 5.63 million (US\$ 85,303) envisaged in the revised budget for the year 2017-2018 mainly due to non- receipt of the contribution from the Mexican National Committee of International Commission on Irrigation and Drainage (MXCID) against its share from the registration fees of the 68th IEC and 23rd Congress meetings held in Mexico, Mexico from 08-14 October 2017.

22. The Committee noted with appreciation that Ministry of Water Resources, China through Chinese NC (CNCID) supported YP training programme and workshop in Beijing in April 2018 amounting to \$60,000. The Committee also noted that during the financial year 2017-2018 an amount of ₹ 0.32 million (US\$ 5,000) was received in December 2017 as a Special Subscription for Sustainable Development of Tidal Areas (SDTA) publication from Chinese Taipei Committee (CTCID), Taiwan. The committee recommends that IEC may record their appreciation for the contributions made and the active part taken by CNCID, KCID together with ICID Central Office for supporting the training programme and CTCID for the publication.

PFC Minutes Item 8: To consider revised budget proposal for the current FY 2018-2019; budget proposal for FY 2019-2020; preliminary budgets for FY 2020-2021 and forecast budget for FY 2021-2022

23. The committee was informed that Central Office is operating with 17 staff members. It was pointed out that despite the new activities being undertaken and proposed to be undertaken during the next financial year, the work is being accomplished through the existing staff and partly by hiring the services of consultant on temporary basis and that the budget proposals includes salaries of ICID staff at the revised pay scales based on the report of ICID Staff Pay Revision Committee that was approved by the Staff Committee in its meeting held on 7th October 2017 in Mexico City, Mexico.

24. The Committee considered the revised budget for the FY 2018-2019 and the budget proposal for the FY 2019-2020, preliminary budget for 2020-2021 and forecast budget for 2021-2022. It noted that there is no deficit in proposed revised budget against approved budget for 2018-2019. PFC appreciated the financial management of the Central Office for maintaining a healthy situation for future.

25. The PFC appreciated the efforts of the ICID CO to create and maintain Gratuity Fund and Leave Encashment Fund to meet future liabilities.

26. The committee recommended to IEC for the approval of the revised budget for FY 2018-2019 and the proposed budget for FY 2018-2019, presented in Annexes to 69th IEC Resolutions under **Annex R1.2, page 18**, and noted the preliminary budget for FY 2020-2021 and forecast budget for 2021-2022.

PFC Minutes Item 9: Surplus/Deficit and Cash Reserves

27. The Committee noted that the Cash Reserves as at the beginning of the FY 2018-2019 is INR 40.38 million (US \$ 621,230) considering sundry debtors, advances (assets) and outstanding subscriptions. The reserves for the previous year of 2017-2018 were INR 38.61 Million (US\$ 585,061). The Committee appreciated the endeavours to improve the cash reserve vis-à-vis annual expenditure on an incremental basis.

PFC Minutes Item 10: Action on Recommendation of The Task on 'Review of Annual Subscriptions'

28. The PFC noted with appreciation action on recommendation of The Task on 'Review of Annual Subscriptions' taken by ICID CO. The 68th IEC, based on PFC recommendation, approved revision of the 1991 formulae as indicated below:

The Revised Formulae:

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

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

Where

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

(ii) UNC, for countries paying UN contribution

< 0.30 per cent:	UNC = 0
>0.30 per cent but <0.60 per cent:	UNC = US \$ 725
>0.60 per cent but <1.50 per cent:	UNC = US \$ 1450
>1.50 per cent but <3.00 per cent:	UNC = US \$ 2175
> 3.00 per cent:	UNC = us \$ 2900

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

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

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

(Where IA is Irrigated Area and DA is Drainage Area)

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

29. PFC observed that NCs were provided an opportunity up to 31st December 2017 to confirm the correctness of the Benefitted Area (IA and DA), and annual subscription based latest IA and DA (as per Annual Report 2016-17) and 20 NCs confirmed their agreement with the revised subscription. Further, 6 NCs indicated revised/updated IA and DA – subscription revised based on revised areas and 6 NCs (Estonia, Hungary, Malaysia, Nepal, Turkey and Switzerland) raised certain issues regarding identification/reconciliation of benefitted areas or phasing of transition and 26 NCs did not respond.

30. PFC observed that the first virtual meeting of the PFC was held on 02 April 2018 to review the status towards response received from the NCs and 2018 revised subscription sent to 52 NCs based on updated areas. Out of 6 remaining NCs, Switzerland has withdrawn from 2018, and subscription invoice based on present benefitted areas sent to 5 NCs.

31. During the PFC meeting, CO took up special meetings with the NCs of Nepal and Malaysia to arrive at a mutually agreed solution to the issue. In case of Malaysia, it was decided that the irrigated and drained area values will be reviewed by the National committee and the dues will be recalculated based on the new values. For Nepal, considering their special conditions and development status, it was decided that their fee structure may be retained as per the existing rates for the year 2017. Since Turkey representatives did not attend the meeting, the issue will be taken up with them separately. Hungary has already sent their subscription at pre-revised rates. Since Switzerland have withdrawn formally, the revision is infructuous for their case. Estonia have agreed to meet the difference in the contributions arising out of revision in installments as mentioned in the agenda at para 76.

PFC Minutes Item 11: Report of the Task Force on Independent Business Unit (IBU)

32. PFC, as per 38th meeting held in Mexico city in October 2017, considered and agreed to the Financial Sustainability report and its recommendations in order to implement strategies, programs and activities as per the road map to ICID Vision 2030. PFC agreed with one of the recommendation in the report that ICID needs to adopt more entrepreneurial routes to financial sustainability by investigating the scope for additional resource mobilization and one possibility in that direction could be to generate income by taking up assignments on commercial terms.

33. Accordingly, the Council meeting held at Mexico, 2017, accepted the PFC's recommendation to establish a Special Task Force to explore the possibility of establishing an Independent Business Unit related to ICID mission in order to generate additional income. The **MB at its 6th virtual meeting held on 22 November 2017** approved the **composition of STF** which has been constituted vide Notification No.7 of 2018 dated 15 January 2018 with PH Dr. Saeed Nairizi (Iran) as its Chair.

34. PFC observed that TF-IBU held its **first virtual meeting on 26 February 2018** and second virtual meeting on 24 July 2018 to deliberate various aspects of **establishment of IBU**. Based on advice of company law expert and Chartered Accountant, ICID CO prepared draft concept report and recommended that IBU can be set up as Section 8 company under Company's Act 2013. Some of the activities which can be considered by the IBU as identified by TF are limited professional consulting services; capacity development, workshop and training at national or regional

level; professional certification related to ICID mission; providing advice to the national governments in policy matters etc..

35. PFC recommended that NCs can also become agent/partners to the IBU in the exercise within their respective countries. The Chair of TF-IBU, PH Dr. Saeed Nairizi and SG A B Pandya briefed the member of PFC during the meeting.

36. PFC recommended and IEC approved “in-principle” to the proposal as formed by the TF-IBU and authorized ICID CO to take up preparation of formal detailed proposals for seeking approvals from the requisite government agencies. It was also suggested that the approval process may be completed before September 2019 to formally launch the IBU as part of commencement of 70th anniversary celebrations at Bali, Indonesia.

PFC Minutes Item 12: Miscellaneous Financial Issue

37. PFC recommended that ICID should make all efforts for renewal/resoration of FCRA registration. PFC noted that ICID has already taken up the matter and the new registration may be difficult being a very lengthy process since as per laid down procedure in Foreign Contribution (Regulation) Act (FCRA), 2010, credentials of all board members (President, VPs and SG) will have to be verified by respective authorities.

38. PFC considered and recommended the reappointment of the Statutory Auditor of ICID, M/s P.K. Chopra the statutory auditors of ICID for the period 2018-2019 to 2020-2021 which was approved by IEC subsequently.

PFC Minutes Item 13: Any Other Business

39. The Committee noted that Pakistan National Committee (PANCID) had paid US\$ 676.88 short due to exchange rate fluctuation for US Dollar and requested for waiving off of this short subscription as they are not in a position to make the payment of the balance amount out of current Financial Year 2018-2019 budget. PFC considered the request of PANCID and recommended to IEC for accepting the request of PANCID for waiving off the less subscription in respect of ICID membership, which was subsequently approved by IEC.



Report of the 29th Meeting of the
PERMANENT COMMITTEE ON STRATEGY AND ORGANIZATION (PCSO)
 15 August 2018, 13.30-17.00 hours
 Saskatoon, Saskatchewan, Canada

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

Members Present: (1) Vice President Hon. Bong Hoon Lee, Chairman (Korea, 2014); (2) Vice President Mr. Ian William Makin (UK, 2015); (3) Vice President Dr. (Mrs.) Irena G. Bondarik (Russia, 2016); (4) Vice President Er. Naoki Hayashida (Japan, 2017); (5) Vice President Dr. Brian T. Wahlin (USA, 2017) and (6) Er. Ashwin B. Pandya, Secretary General, ICID.

Ex-Officio Members Present: (1) VP Ian Makin, Chairman, European Regional Working Group (ERWG); (2) Ms. Kathleen Murray, Convener, ICID Young Professional's e-Forum (IYPeF) and (3) Mr. Bryan Ward, Chairman, Committee on Congresses/Conferences (C-CONGR).

Observers: (1) Mr. Felix B. Reinders, President, ICID (South Africa); (2) PH Peter S. Lee (UK); (3) Prof. Sylvester Mpandeli (South Africa); (4) Mr. Momir Vranes (Australia); (5) Mr. Mitsuo Ishijima (Japan); (6) Mr. Mazhayskiy Yruy (Russia) and Mr. H.K. Varma, Executive Director, ICID.

PCSO Minutes Item 1: ATR on the Minutes of the 28th Meeting of PCSO

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

PCSO Minutes Item 2: Membership of PCSO and its Workbodies

2. Based on the recommendations of the various workbodies associated with it, PCSO reviewed the membership and recommended for acceptance by the Council. Consequent upon the acceptance by the Council, an updated consolidated membership of all workbodies, including those of PCSO and its workbodies, is given in **Annex 3 (Page 51)** of 69th IEC minutes.

3. In terms of ICID By-law 3.9.5 (c), the Committee considered and recommended the nomination of VP Dr. Brian T. Wahlin as Chairperson of PCSO which was subsequently approved by the Council. The Committee expressed its gratitude and appreciation to VPH Bong Hoon Lee for the contributions made during his term of office.

PCSO Minutes Item 3: Membership of ICID

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

4. The Committee recorded its special appreciation to VPH Bong Hoon Lee and VP Irene Bondarik for their efforts in bringing more members to ICID fraternity. VP Irene Bonardik held a meeting with Mr. Robert Dilba, Chairman of the Land Reclamation Board, Ministry of Agriculture Rural Estate and explored the possibility of Republic of Latvia becoming a member of ICID, while taking up the reactivation of Lithuanian NC with Mr. Kazus Kazinkuas, former minister of land reclamation of Lithuania Republic, who is at present the head of the Lithuania Association of Land Reclamation Engineering. The Committee appreciated her efforts in bringing Georgia to become an ICID member and efforts towards the possible membership of Belorussia Republic and Azerbaijan of ICID.

5. The Committee noted with concern that NCs of Chad, Madagascar, and Tanzania are likely to become 'Associate Member' with effect from January 2019. The Committee noted that Ukraine has paid subscription for 2015 and is in the process of making payment for the remaining years. The Committee noted that the NC of Switzerland has withdrawn from the membership of ICID (CH-AGRAM), owing to its dissolution with effect from 31 March 2018.

6. The Committee recommended that the request of Azerbaijan for reconsideration of their contribution may be considered and the discussions with the country may be continued to find a way out. Persuasion with Latvia is also needed for bringing them in the ICID network. The committee noted with satisfaction the efforts are being made for reviving the membership status of various countries.

7. In case of Latin American countries, it was suggested that while it may be difficult to operate through the respective governments for restoration of membership, the private and government players may be encouraged for taking individual membership and participate in ICID activities. In case of other countries also, this approach may be considered.

8. The Committee expressed its anguish as more Associate Members are from Europe, even though ICID mandates are relevant to those countries. To reverse this trend, ICID should provide more value added services. Africa Region is also needed to be rejuvenated by adding more countries to ICID fraternity. Marketing material is required to be developed and shared among the NCs for spreading awareness about ICID activities and the benefits that can be garnered.

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

9. The Committee noted the role of Vice Presidents in strengthening the regional cooperation and activities of National Committees allocated to them and expressed its satisfaction. The Committee appreciated the efforts of PH Dr. Nairizi, VPH Dr. Wahba, VPH Lee, VP Dr. Irene and the NCs of CNCID, ENCID, KCID, NENCID and IRNCID for their efforts in furthering the membership of ICID through their contacts and regional cooperation amongst the NCs.

10. It was informed that the YPs trained during April 2018 programme at CNCID are continuing their contacts even after the training and the same is an encouraging sign of future cooperation amongst them.

11. The Committee appreciated the increasing cooperation among the NCs such as IRNCID-RUCID and CNCID-KCID to undertake joint collaborative activities in terms of research, YP training, IRPID etc.

12. The action plan signed between Iran and Russia has resulted in taking up the studies for optimisation in Karun basin. VP Dr. Irene requested for identifying financial sources for continuing the studies. VPH Dr. Wahba has requested Russia for cooperation in drainage studies in Nile delta region. VP Hayashida agrees to be associated with some private members for propagation of ICID membership.

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

13. The Committee noted and supported the proposal for granting Direct Membership to a new applicant Mr. Sajid Ali Bhutto (Pakistan), as per the recommendations of DMA Sub-Committee.

14. Direct membership in countries falling out of ICID network is an important strategic requirement. In many European countries, the governments are not finding value in ICID association even though the ICID mandate is relevant today. Need to provide value addition to ICID operations is required to be made. It was suggested that region-wise specific publicity material may be developed and countries like Australia can utilize the same for propagating ICID cooperation in non-member countries. For this purpose, the present web site design is also required to be user friendlier.

PCSO Minutes Item 3.4: Task Team to study the feasibility of Single Membership for Regional Organizations (TT-RO) – Report by the Chair

15. The Committee considered the report presented by the Chair of the TT, PH Peter Lee. It is apprehended that regional group membership has the potential of fundamentally altering the membership structure. Instead, direct institutional membership in such countries may be sought from the key organizations and the presence of ICID may thus be maintained. Direct members from the same country can be encouraged to work together for better projection of the concerned country.

PCSO Minutes Item 4: Road Map to ICID Vision 2030: Review of the Action Plan 2017-2021

16. The Committee noted that the activities identified by WGs, RWGs, NCs and ICID CO in the Action Plan 2017-21, appended to the 'Road Map to ICID Vision 2030' (http://www.icid.org/icid_vision2030.pdf) are committed to be achieved over a period of five years.

17. The Committee agreed that in order to implement the action plan, to convert vision to action, the availability of resources in terms of voluntary inputs from national experts spread across many countries and disciplines need to be maintained. The resources of ICID network, which mainly consist of membership fee from the National Committees (NC) from the member countries and the voluntary time of the participating experts, are limited, as noted by the Committee. For maintaining the size of the network, which is already hovering around a minimum critical mass, has remained a challenge. Innovative means of raising resources both at NC level as well as at the global level will be a considerable challenge for the network.

18. Under the suggested monitoring mechanism by the Committee last year, the Committee reviewed the progress of activities identified in Action Plan 2017-2021 by RWGs and workbodies reporting to PCSO and requested the theme leaders for active monitoring of the WGs and TTs/TFs.

PCSO Minutes Item 5: Knowledge Management Strategy (KMS)

19. In Mexico IEC in 2017, the Committee considered the “Concept note on the Knowledge Management Strategy (KMS)” and broadly agreed to the approach adopted in the strategy and endorsed the engagement of a dedicated team of professionals to manage KM activities.

20. The Committee considered the draft strategy named ICID Knowledge Portal ([weblink](#)) and recommended that the strategy as presented in WG-CDTE may be followed up and the same can be launched in about a year’s timeline. YPs may be actively involved for content generation and management.

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

21. The Committee appreciated the increasing cooperation with International Organizations and collaborative activities undertaken during the year 2017-18.

22. The Committee was happy to note that the first batch of Water Systems have been recognized under ICID-WWC joint program, the World Water Systems Heritage (WSH) during the 8th World Water Forum (WWF8) in Brasilia in 2018. The Committee noted that the SG has brought forward the concerns of ICID in the management of the WSH Program to the attention of WWC Officials which would eventually result in the drawing up of a Memorandum of Understanding (MoU) to have a clear understanding in the operation of the WSH Program, with adequate commitments from WWC and its members.

23. The Committee noted that the MoU with WMO is in the process of renewal, as the present MoU expired in July 2018, which will take into consideration ICID’s new vision, mission and goals.

24. The Committee noted with satisfaction the involvement of ICID’s global partners in the ITAC of WIF3 in Bali, Indonesia in 2019 and also the participation and support of partners such as CSIRO in YP Training Programs.

25. The Committee encouraged ICID’s partnership with FAO in Water Accounting and its contribution towards the Global Framework on Water Scarcity (WASAG) and involvement in two WASAG WGs – (i) WG on Communication and (ii) WG on Sustainable Use of Agriculture Water.

26. Since ADB is a direct member, they may be persuaded for having collaborative programmes with ICID. The same may be explored with them during the upcoming Asia Water Forum at Manila in October 2018.

PCSO Minutes Item 7: Review of reports of Regional Working Groups (RWGs)

PCSO Minutes Item 7.1: African Regional Working Group (AFRWG)

27. On behalf of AFRWG Chair VPH Dr. Mohamed Wahba, Dr. Sylvester Mpandeli, Vice Chair presented the report. He informed that a Memorandum of Understanding (MOU) between Morocco National Committee on Irrigation and Drainage (ANAFIDE) and Egyptian National Committee on Irrigation and Drainage (ENCID) is proposed to be signed during the Cairo Water Week in October 2018 at Cairo, Egypt. It was informed that draft MOUs between ENCID and each of the NCs of Sudan, Russia and Italy are also under consideration. Dr. Mpandeli informed that first meeting with the Young Professional Working Group of the Egyptian National Committee (ENCID) was organized on 14 May 2018. ANAFIDE shown their willingness to give support and make progress with the position paper on Green Revolution in Africa. WG proposed to finalize the position paper before the next meeting in Bali in September 2019 and emphasized to collaborate and discuss with organizations such as the Alliance for Green Revolution (AGRA). Dr. Mpandeli informed that various activities are taking place within the SARIA region such as a SARIA Workshop organized in May 2018 in KwaZulu-Natal Province of South Africa on “Agribusiness and Value Chain: A Rapid Transformation of Agri-Food Systems”. A steering committee meeting was also organized where it was decided that from 2019, activities will be combined with NCs and the first initiative will be hosted by SANCID in 2019. SARIA will provide support in accommodation and logistic with invitation to other NCs. First African Young Water Professionals Workshop is scheduled during the Cairo Water Week from 14-18 October 2018 in Cairo, Egypt. The Committee noted that ANAFIDE will organize the 5th African Regional Conference on Irrigation and Drainage from 16-18 March 2020 at Rabat, Morocco.

PCSO Minutes Item 7.2: American Regional Working Group (AMRWG)

28. Dr. Warren Helgason (Canada) was appointed as an Interim Chair of the American Regional Working Group (AMRWG) to lead the promotional activities of the WG. The members discussed the possible barriers for South American countries to join ICID. Ir. Pilar Gil (Chile) suggested that informal networks of professionals, who are interested in irrigation and drainage, could be used as a ‘grassroots’ approach for building interest and potential

membership in ICID. The WG discussed the options presented by PH Peter S. Lee (UK) on direct membership for South American countries to join ICID. It was also noted that the 'Special Session of Latin Americas' could not be held due to lack of attendance during the event.

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

29. VP Dr. Hayashida, co-Chair of ASRWG presented its report and based on the report, the Committee noted with satisfaction the collaborative activities taking place in the region and initiatives taken in this regard by various NCs especially CNCID and KCID. It was suggested that IRPID regional meeting may be held in conjunction with the YP training programme being planned in April 2019.

PCSO Minutes Item 7.4: European Regional Working Group (ERWG)

30. VP Ian Makin, Chair of ERWG presented its report and based on the report, the Committee recommended that efforts need be continued for encouraging the European countries in participating in the activities of ICID. Efforts may be made to bring in large organizations in the region as direct members. The Committee considered the recommendations of ERWG in terms of remaining ToRs 3 and 4 of erstwhile TF-REV to study the financial operational arrangements of European NCs and the reasons for withdrawal of them from membership of ICID in the recent past and recommended to the Council for acceptance. ERWG web site also needs be revitalized.

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)

31. The Chair presented its report and based on the report, the Committee recommended that more support from NCs, is needed for establishment of a new group. However, the Committee recommended to the Council for the re-establishment of the Working group on Irrigation and Drainage in the States under Socio-economic Transformation (WG-IDSST), with a revised mandate as presented at the meeting. The WG will henceforth be reporting to PCTA under Strategy Theme 'Basin', the Committee suggested.

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

32. Mr. Bryan Ward, Chair presented its report. Difficulties experienced in organizing the events were discussed at length. It was suggested that the viability of events is poor in absence of strong government sponsorship. Reduction of the share of ICID from the event proceedings was also suggested. Currency risk coverage is also needed as the registration fees are being decided almost three years in advance in US Dollars. Hence, it was proposed that the registration fees be determined in local currency and made available in US dollars (USD), when registrations were set to open, in order to mitigate the effects of fluctuating exchange rates. Looking at the issues involved, it was recommended that a Task Team may be set up for comprehensive economic investigation of the commercial models and cost sharing mechanisms.

33. To boost the attendance at the 2020 'ICID Congress' to be held in Sydney in September 2020, the Australian NC has considered adopting subsidized registration fee of 50% for delegates from member countries listed in the UN Least Developed Countries' List.

34. The Committee considered the finalized Letter of Agreement (LoA) for Hosting Congresses/World Irrigation Forums/Regional Conferences/International Micro Irrigation Conferences/International Drainage Workshops and recommended the same for the acceptance by the Council.

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

35. Ms. Kathleen Murray, Coordinator presented its report and based on the report, the Committee recommended that the social media strength of the YPs need to be utilized for making ICID presence felt on social media. YPs' help for populating and testing the oncoming knowledge portal was also recommended.

PCSO Minutes Item 9: Organizational issues related to IEC, Congresses, Forums and Conferences

PCSO Minutes Item 9.1: Report of the Sub-Committee on Themes, Topics and Work Plans of future ICID Events (SC-E-THEMES)

36. The Chair of the Sub-Committee, PH Dr. Gao Zhanyi presented its report and indicated that the many issues on WIF3 and Working Group meeting formats have been resolved. The Committee recommended that the experience gained in the present event may be utilized for optimizing the time and resources utilization at the physical meetings of WGs.

PCSO Minutes Item 10: Any other business



**Report of the 38th Meeting of the
PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)
16 August 2018, 09.00-17.00 hours
Saskatoon, Saskatchewan, Canada**

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

Members Present: (1) Vice President Hon. Dr. Ding Kunlun, Chairman (China, 2015); (2) Prof. Graziano Ghinassi (Italy, 2012); (3) President Hon. Mr. Peter S. Lee (UK, 2013); (4) Vice President Hon. Mr. Chaiwat Prechawit (Thailand, 2014); (5) Mr. Ali Reza Salamat (Iran, 2015) and (6) Er. Ashwin B. Pandya, Secretary General, ICID

Permanent Observers Present: (i) Mr. Ruhiza Jean Boroto (FAO) and (ii) Mr. Ian Makin (IWMI).

Ex-Officio Members Present: (i) VP Dr. Charlotte de Fraiture (Netherlands), Co-Theme Leader, Strategy Theme – Basin & Chair, WG-ENV; (ii) VP Er. Naoki Hayashida (Japan), Co-Theme Leader, Strategy Theme – Basin; (iii) VP Mr. Waseem Nazir (Pakistan), Co-Theme Leader, Strategy Theme – Knowledge; (iv) VP Ian Makin (UK), Co-Theme Leader, Strategy Theme – Schemes & Chair, WG-M&R; (v) VP Irene G. Bondarik (Russia), Co-Theme Leader, Strategy Theme – Schemes; (vi) VP Dr. Brian T. Wahlin (USA), Co-Theme Leader, Strategy Theme – Schemes; (vii) VP Er. Madhav Belbase (Nepal), Co-Theme Leader, Strategy Theme – On- Farm; (viii) VP Dr. K. Yella Reddy (India), Co-Theme Leader, Strategy Theme – On-Farm; (ix) PH Prof. Bart Schultz (The Netherlands), Chair, EB-JOUR; (x) Dr. Ruey-Chy Kao (Chinese Taipei), Chair, WG-SDTA; (xi) Dr. Tsugihiko Watanabe (Japan), Chair, WG-CLIMATE; (xii) VPH Dr. Ragab Ragab (UK), Chair, WG-WATER & CROP; (xiii) Dr. A.K. Randev, Chair, WG-SON-FARM; (xiv) VPH Dr. Hafied Gany (Indonesia), Chair, WG-IOA; (xv) VPH Ms. Mary Jean M. Gabriel (South Africa), Chair, WG-IDM and (xvi) PH Dr. Gao Zhanyi, Chair, SC-E-THEMES.

Observers: (i) President Felix B. Reinders (South Africa); (ii) PH Dr. Saeed Nairizi (Iran); (iii) VPH Laurie Tollefson (Canada); (iv) VP Er. Naoki Hayashida (Japan); (v) VP Dr. Brian T. Wahlin (USA); (vi) Mr. Nor Hisham Ghazali (Malaysia); (vii) Mr. Mortaza Yazdkhasti (Iran); (viii) Dr. Narges Zohrabi (Iran); (ix) Mr. Warren Helgason (Canada); (x) Mr. Hidefumi Murashita (Japan); (xi) Mr. Hitsuo Ishijima (Japan); (xii) Mr. Yasunori Saiki (Japan) and (xiii) Mr. Jaepil Cho (Korea).

PCTA Minutes Item 1: Water Scarcity Challenges in the Agriculture Sector: Lecture by Mr. Ruhiza Boroto (FAO)

1. Mr. Ruhiza Boroto, Senior Water Resources Officer at FAO Headquarters and Secretary, WASAG delivered a lecture on “Water Scarcity Challenges in the Agriculture Sector”, which was appreciated by the members.
2. The Committee has taken note of the ICID’s involvement in FAO-led initiative of Global Framework on Water Scarcity in Agriculture (WASAG) and recognized that the global framework has the potential to benefit farmers and rural communities to adapt and be more resilient to increasing water scarcity.
3. Mr. Boroto gave an account of development and establishment of WASAG and its various features. During the presentation, it was brought out that water scarcity occurs due to many reasons like hydrological, economic, management facilities or lack thereof and capacities available. Since the agricultural usages are developing at a relatively faster rate, the scarcity challenges have to be addressed in a time bound manner to ensure food security.
4. PCTA urged experts from member countries to actively participate in the WASAG as the framework will assist in identifying and streamlining the policies, governance and practices with a view to adapt to less water availability, in order to sustainably improve agricultural productivity and food security.

PCTA Minutes Item 2: ATR on the minutes of the 37th Meeting of PCTA

5. The Committee noted with satisfaction the ATR on the minutes of the 37th meeting of PCTA.

PCTA Minutes Item 3: Membership of the PCTA and Workbodies

6. PCTA considered the proposals for its membership and for the membership of various workbodies associated with it and recommended for their approval by IEC. Consequent upon the acceptance by the Council,

the updated, consolidated membership of all workbodies, including those of PCTA and its workbodies, is given in **Annex 3 (Page 51)** of 69th IEC minutes.

7. The Committee opined that for the inclusion of a new member in the WG, processes may be reviewed and confined between the WG Chair and CO which will eventually save some time during the PCTA meetings.

PCTA Minutes Item 4: Road Map to ICID Vision 2030: Review of the Action Plan 2017-2021

8. The Committee noted that the activities identified in the Action Plan 2017-21, appended to the 'Road Map to ICID Vision 2030' (http://www.icid.org/icid_vision2030.pdf) are committed to be achieved over a period of five years. These activities identified by the various RWGs, WGs, NCs and Central Office under various strategies of ICID's six organizational goals so as to put the Vision to Action over a five-year period, need to be reviewed and monitored annually during the Council meetings, the Committee reiterated.

9. The Committee noted that with satisfaction that the actions in implementing the elements of 'way forward', suggested in the Chapter 5 of the Road Map such as (i) Broad-basing NCs, (ii) Enhancing regional cooperation, (iii) Facilitating technical support to NCs, (iv) Training and capacity development, (iv) Serve as knowledge hub in AWM, (v) Knowledge exchange and collation by WGs, (vi) Extensive use of ICT, (vii) Online services, (viii) Well-organized ICID events, (ix) Efficient functioning of WGs, (x) Encouraging participation of YPs, (xi) Awarding excellence and (xii) Strengthening international collaboration and partnerships have been initiated under different action points; however, the need to enhance the visibility of NCs remains a challenge.

10. The Committee recognized the pivotal role played by the Working Groups in converting the vision into action, by focussing their activities towards measurable outputs which could form part of the products that could be disseminated to the NCs and might be useful to the NCs in achieving the goals set as part of their national mandates. The Committee noted that the Action Plan 2017-21 will be monitored through the existing mechanisms under PCTA, under which the WGs have been requested to monitor the progress of activities and report it to their respective Permanent Committees. The Strategy Theme leaders will also take stock of the progress of the activities to be undertaken by the WGs under four strategy themes of PCTA and present it in their synthesis reports and later to the Council meeting.

11. The Committee considered the report of SC-E-THEMES on the mandated additional tasks to (i) work out the structure of the meetings, related to IEC, particularly the WGs at the ICID annual meetings to make them more effective and (ii) to draw guidelines to make the WG meetings/sessions technically richer and beneficial to the stakeholders and industries by exploring the ways of combining the meetings of workbodies with areas of common interest or holding webinars, etc. and recommended that the experience gained in the present event may be utilized for optimizing the time and resources utilization at the physical meetings of WGs.

12. The Committee reviewed the Action Plan 2017-21 based on the progress achieved by WGs reporting to the Committee and recommended that the existing mechanism to monitor the Action Plan is adequate. The Strategy Theme Leaders and WG Chairs should provide report on progress of activities under Road Map

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

13. The Committee noted with satisfactions that the Regional Nodes of IRPID in China and Iran are functioning well and more National Committees are interested in establishing Regional Nodes within the framework of the Revised IRPID Scheme (http://www.icid.org/irpid_scheme.pdf).

14. Proposals for the establishment of three RNs in Africa, Mediterranean, Central Asian and Caucasus Regions may be accepted. No request received from MXCID for RN for Spanish speaking countries.

15. The Committee recommended that the RNs and participating NCs may use and populate Irrigation Research (IrriSEARCH) database template developed by CO, with information on the various institutions involved in Research in AWM developed by CO.

PCTA Minutes Item 6: Review of reports of the activities of Workbodies under the Strategy Theme – Basin (ST.B)

PCTA Minutes Item 6.1: Working Group on Water for Bio-Fuel and Food (WG-BIO-FUEL)

16. In absence of Chair Dr. Fuqiang Tian (China) and Vice-Chairman Mr. Sanjay Belsare (India), Mr. Morteza Yazdekstasi (Iran) presented the report of the WG. Since the WG-BIO-FUEL meeting could not be held due to non-availability of members, the Committee recommended that the WG may be merged with WG-WATER & CROP, which was subsequently approved by IEC.

PCTA Minutes Item 6.2: Working Group on Climate Change and Agricultural Water Management (WG-CLIMATE)

17. WG Chair Dr. Tsugihiko Watanabe presented the report of the WG-CLIMATE. The WG organized an internal Workshop on the theme “Agricultural water management under the changing climate”. As per the activity plan for the Vision 2030, the WG proposed to organize a workshop during the 70th IEC in Bali in September 2019 with cooperation from other work bodies. WG Chair reported that one joint session of ICID, PAWEES and INWEPF will be organized during “PAWEES & INWEPF International Conference Nara” from 20-22 November in 2018 at the Nara, Japan. Dr. Watanabe apprised about the progress in updating MTD and the completion of the first draft.

PCTA Minutes Item 6.3: Working Group on Environment (WG-ENV)

18. WG Chair VP Prof. (Ms) Charlotte de Fraiture presented the report at the Committee meeting. WG decided to organize a virtual WebEx meeting relating to the case studies on the “Positive Ecosystem Services from Irrigation and Drainage Systems”. The WG proposed to organize a workshop on “Poor Quality Waters” during the 70th IEC meeting in September 2019 in Bali, Indonesia,

19. Dr. Michael van der Laan from South Africa was elected as Vice Chair in place of Prof. Hatcho while Dr. Seija Virtanen from Finland was elected as Secretary of the WG.

PCTA Minutes Item 6.4: Working Group on Managing Water Scarcity under Conflicting Demands (WG-MWSCD)

20. VPH Franklin E. Dimick (USA), Chair of the WG presented the report of the meeting of the WG-MWSCD. The Committee noted that the WG propose to organize an International Workshop during the 71st IEC Meetings and 24th ICID Congress in September 2020 at Sydney, Australia. The Committee also noted that the Technical Report of the erstwhile WG-DROUGHT titled ‘Water Management in Water Stressed Regions’ is now available on the ICID website http://www.icid.org/report_water_stressed_regions.pdf for downloading.

PCTA Minutes Item 6.5: Working Group on Sustainable Development of Tidal Areas (WG-SDTA)

21. Dr. Ruey-Chy Kao, Chair of the WG presented the report considering the new mandate of the WG. Ir. Hj. Nor Hisham Bin Mohd Ghazali (Malaysia) was elected as the new Secretary of the WG.

22. The WG proposed to organize a ‘Side Event’ on ‘Integrated Development of Tidal Areas’ and International Workshop on ‘Integrating Research, Practice, and Policy - An Exchange of Expertise from Basin Perspective’ during the 3rd World Irrigation Forum (WIF3) at Bali, Indonesia in 2019. A Short Course on the theme “Tidal Prediction & Typhoon Wave Model” will be organized by the WG in Taiwan in December 2019. The WG introduced ‘Ground Water and the Land Subsidence on the Coastal Area’ as a new area for discussion by the members and to be included in the Road Map to ICID Vision 2030.

23. The WG also proposed to organize Web-based seminar on topic ‘Discussion on Drainage Capacity and Flood Disaster in Tidal Areas under a Variable and Changing Climate’ in January 2019 and e-discussion on ‘Integration of Drainage tail, Land subsidence, Ground water and Management in Tidal Areas’ in April 2019.

24. The Committee noted that a Special Issue of ICID Journal titled “Sustainable Development of Tidal Areas: Climate Change and Environmental Impacts” (Volume 67, Issue 3) was published in July 2018.

PCTA Minutes Item 6.6: Working Group on Adaptive Flood Management (WG-AFM)

25. In the absence of Chair Dr. Kamran Emami (Iran), Mr. Maurice Roos (USA) presented the report and the following revised mandate:

- (a) To motivate ICID National Committees in various countries to set up their National Working Groups,
- (b) To provide guidance to compile, publish, update and/or translate documents on adaptive flood management;
- (c) To promote inter-disciplinary exchange of information, knowledge and experience, as well as networking on the topic for proper understanding of the technological developments in the subject;
- (d) To organize seminars at ICID Congresses and meeting to enhance deeper understanding of adaptation to floods and coping with floods including community participation with focus on impact of floods on agriculture water management;
- (e) To prepare a paper on “Adaptive Flood Management” for publication in Irrigation and Drainage (IRD);
- (f) To finalize a book on “Adaptive Flood Management”.

26. The Committee recommended and subsequently IEC approved the mandate and setting up of the new WG-AFM.

PCTA Minutes Item 6.7: Synthesis Report by Co-Theme Leaders of ST Basin [VP Dr. Charlotte de Fraiture (The Netherlands) & VP Er. Naoki Hayashida (Japan)]

27. The Co-Theme Leaders presented their report which was noted by the Committee with satisfaction.

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 Capacity Development, Training and Education (WG-CDTE)

28. In the absence of Chair Prof. Dr. Abdelhafid Debarrah (Morocco), Vice-Chair Dr. Young D. Kim (Korea), Pr. El Houssine Bartali from Morocco presented the report of the WG. The Committee noted and appreciated the proposal of the KCID/KRC to organize an international training programmes for young professionals (YPs) at RC-IEEC in April 2019 and proposal of ANAFIDE to organize YP training programme from Africa Region prior to 5th African Regional Conference (5AfRC) on Irrigation and Drainage in March 2020 at Rabat, Morocco. Committee also appreciated efforts of ENCID in organising the First African Young Water Professional's Forum (Af-YPF) during 1st Cairo Water Week from 14-18 October at Cairo, Egypt.

29. The Committee noted that ICID CO has developed a new knowledge management strategy. The Committee recommended that ICD CO should invite the WG members as well as NCs to participate actively in the Knowledge Management cycle. The Committee noted that the Knowledge Portal is anticipated to be launched during the World Irrigation Forum at Bali, Indonesia in September 2019.

30. The Chair also presented the Knowledge Management Strategy (KMS) for PCTA's consideration and the Committee recommended that the KMS as proposed may be accepted.

PCTA Minutes Item 7.2: Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST)

31. In the absence of WG Chair Dr. Kamran Emami, Dr. N. Hatcho presented the report. WG proposed a Workshop on "Historical Management of Water" at Bali in September 2019. The Committee was provided with an update on the publication "Historical Water Sustainability" brought out by the WG.

32. The Chair also presented the revised scheme of World Heritage Irrigation Structures (WHIS) for PCTA's consideration and the Committee recommended that the same be approved by the Council.

PCTA Minutes Item 7.3: ICID Journal Editorial Board (EB-JOUR)

33. PH Prof. Dr. Bart Schultz, Chair of the EB-JOUR presented the report of the activities of the Editorial Board of the Journal. He informed that Dr. Takanori Nagano (Japan) had been accepted as an Associate Editor of the ICID Journal.

34. PCTA noted that in the year 2018, a total of 832 copies have been distributed to the members' i.e. 565 'online only' subscriptions, 155 subscriptions as 'online + print' and 112 as 'print-only' subscriptions. PCTA further noted that a new agreement between ICID & M/s. Wiley-Blackwell (2019-2025) has been signed. The highlights of the new agreement were –

- (a) A renewal of contract for calendar year 2019 and a publishing scenario for a seven-year period (2019-2025), based on an annual price increase of 1% for the online subscriptions and 3% for the printed versions;
- (b) ICID shall remain the sole and exclusive owner of the Journal, including the copyright, name (and any new name or title agreed by the parties);
- (c) M/s Wiley will provide approximately 800 copies per volume to ICID members eligible to receive access to the Journal from Volume 68 (2019) onwards, of which a maximum of 300 members may receive the Journal in both print and online versions;
- (d) In addition, ICID will get a greater flexibility in choosing how many individuals can access the Journal online, and incentives for greater uptake and online usage of the journal by National Committees and their members, based on a fixed fee for online only access to the Journal to as many members as ICID may wish, in addition to continuing the current arrangement for print member subscriptions charged per subscription;
- (e) A prize of US\$ 500 per annum to the best paper award winner;

- (f) M/s Wiley's global sales penetration and marketing expertise will ensure an increasing and stable return in subscription revenues for IRD.

35. The Chair informed the Committee about the new "Privacy Policy" of Irrigation and Drainage Journal which was presented during the Editorial Board meeting. The Committee recommended that the privacy policy data as recommended by the Editorial Board be approved.

PCTA Minutes Item 7.4: Task Force for Updating and Maintenance of Multilingual Technical Dictionary (TF-MTD)

36. VPH Dr. Ding Kunlun, Chair of the TF presented its report. An updation of relevant terms of MTD with the support of the relevant WGs was proposed to be undertaken by the Task Force. A list of keywords will be selected from the most frequently appearing terms from the papers presented at World Irrigation Forum (WIF) / Conferences of ICID, as part of the process. The Chair informed that 223 such keywords had been selected and provided by Dr. Sahdev Singh of ICID Central Office. TF suggested that these keywords could be considered as part of the updation process, and the Central Office may request NCs to provide the definition of these keywords. It was suggested that WebEx meeting of the TF be organized sometime in June/ July 2019.

PCTA Minutes Item 7.5: Task Force to Guide ICID Inputs to World Water Forum 8 (TF-WWF8)

37. PH Dr. Chandra Madramootoo, Chair, TF-WWF8 presented the report. President Felix Reinders provided a detailed report on ICID involvement during the 8th World Water Forum (WWF8) in Brasilia in March 2018. He indicated that was an excellent turnout of Ministers and international dignitaries at the Forum, with over 8000 delegates. With active participation and representation of ICID during WWF8 in March 2018, the Committee noted that the TF has completed its mandate and hence may be closed with immediate effect.

38. The Committee agreed with the TF recommendation that the ICID CO may finalize the nominations and seek any additional nominations, if required, prior to the launch of the Task Force to Guide ICID Inputs to World Water Forum 9 (TF-WWF9) at Bali, Indonesia during 70th IEC meetings. It was also agreed that ICID will collaborate and partner with FAO to organize joint sessions during WWF9. The Committee requested PH Dr. Chandra Madramootoo to continue as the Chair of TF-WWF9.

39. The Committee suggested that TF may oversee the WSH Program that will be organized during the WWF9 in 2021 at Dakar, Senegal.

PCTA Minutes Item 7.6: Working Group on Value Engineering (WG-VE)

40. In absence of Chair Dr. Kamran Emami (Iran) and Vice-Chair Mrs. Remziye Yildiz Gulagaci (Turkey), Ir. Nor Hisham M. Ghazali (Malaysia), Secretary of the WG presented the report. The Committee recommended and IEC approved to investigate the need for the establishment of the WG on Value Engineering (WG-VE) subject to completion of output of TF-VE and resubmission of the revised scoping document for getting support of at least 10 National Committees to nominate experts from their countries to the activities of the respective WG.

PCTA Minutes Item 7.7: Synthesis report of Co-Theme Leaders of ST Knowledge [VP Dr. Abdelhafid Debbarh (Morocco) & VP Waseem Nazir (Pakistan)]

41. The Co-Theme leaders recommended revisiting the role of the theme leaders of strategy themes and the role of theme leaders be of continuous in nature in analyzing and guiding the WBs under their strategy themes. The meeting format of WGs be restricted and the WBs should not be allowed to continue beyond the permitted time limit to complete their mandates. The Committee considered the report of the Co-Theme Leaders and noted with satisfaction.

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

PCTA Minutes Item 8.1 Working Group on Sustainable On-Farm Irrigation System Development (WG-SON-FARM)

42. Dr. A.K. Randev, Chair of the WG presented its report. The Chair informed that the updated table of total sprinkler and micro area is available at <http://www.icid.org/sprinklerandmicro.pdf>. A technical paper titled "Farm Water Program: Using the Water Savings Calculator" authored by C. Norman; C. Walters; M. McFarlane; C. Nicholson; and D. Lawler had been published in the Special Issue of Irrigation and Drainage Journal in May 2018. Dr. Graziano Ghinassi (Italy) agreed to deliver a webinar in the month of October 2018. As per suggestion of the SC-E-THEMES, a Joint Session of WGs under Strategy Theme 'On-Farm' was organized on 15 August 2018. PCTA has noted that the Indian National Committee on Surface Water (INCSW) will organize the 9th International

Micro Irrigation Conference (IMIC) from 16-18 January 2019 at Aurangabad, Maharashtra, India on the theme 'Micro Irrigation in Modern Agriculture'.

PCTA Minutes Item 8.2 Working Group on Water and Crops (WG-WATER & CROP)

43. VPH Dr. Ragab Ragab, Chair of the WG briefly presented the WG report. The Committee was informed that the WG proposed to organize an International Workshop on 'Improving the Water Productivity within the Water Energy Food Nexus' during the 3rd World Irrigation Forum (WIF3) in September 2019 at Bali, Indonesia. The WG introduced new sub-topics such as 'Water use and Productivity' and 'Effective Rainfall', under the WG mandate, to work out water requirements of different crops under greenhouse/field conditions and a Task Team (TT) composed of VP Dr. K. Yella Reddy (India), PH Dr. Saeed Nairizi (Iran), VPH Dr. Ragab (UK), and Dr. Chung-Feng, Ding (Chinese Taipei) has been formalized for this purpose.

PCTA Minutes Item 8.3 Synthesis report of Co-Theme Leaders of ST On-Farm [VP Madhav Belbase (Nepal) & VP Dr. K. Yella Reddy (India)]

44. Co-Theme Leaders presented their report and recommended that the joint meeting of WGs under the theme should not eliminate the half-day individual meetings of the WGs.

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 Irrigation, Development and Management (WG-IDM)

45. Ms. Mary Jean Gabriel, Chair of the WG presented the report. Two draft documents titled "Norms and standards of irrigation development" and "Condensed overview of existing documents and practical examples on water balance approach" were prepared and submitted for review. PCTA noted that a 3-day conference on Water Accounting will be held in Iran in December 2019, in partnership with the Technical Support Unit of ICID and FAO.

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

46. VPH Dr. Hafied A. Gany, Chair of the WG presented the report and informed that a paper titled "Global Review of Institutional Reform in the Irrigation Sector for Sustainable Agriculture Water Management, Including Water Users Associations" is under publication through ICID in the special issue of Irrigation and Drainage Journal by Wiley Publisher. Mr. Kazumi Yamaoka submitted a paper titled "Tropical Perennial Rice farming systems (SALIBU technology) for the 2nd Green Revolution against climate change" which brings out the need for supporting the WG in terms of 'Rice planting technology'. PCTA noted that the WG organized an International Workshop on 12 August 2018 on the theme "Institutional and Organizational Setup of Irrigation and Drainage Management System", with sub-themes focusing on the institutional and organizational (I&O) setup of irrigation and drainage (I&D) management (O&M) schemes with new I&O development, method and approaches wherein 43 persons participated. A workshop on the topic "Participatory Irrigation Management and Management Transfer, Approaches and Condition for Successful PIDM" was proposed to be organized during the 70th IEC meeting in Bali in September 2019.

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

47. A brief report of the WG was presented by VP Ian Makin. He informed that the WG members agreed to review the ICID book on the 'Use of geotextiles in irrigation' as and when available which may be later considered for publication by ICID. VP Brian Wahlin (USA) agreed to review the terms of MTD related to canal automation which was accepted by the WG. WG proposed to organize a full-day Workshop on Modernization to promote further exchange of case studies and experiences, and agreed to launch the guidelines during the 3rd World Irrigation Forum (WIF) in September 2019 at Bali.

PCTA Minutes Item 9.4: Working Group on Sustainable Drainage Management (WG-SDRG)

48. Mr. Bernard Vincent, Chair of the WG presented the report and informed that the document titled "Bio-drainage for Management of Waterlogging and Soil Salinity" authored by Dr. Gurbachan Singh (India) is available at http://www.icid.org/report_bmw_n_ss.pdf for download. The National Committee of Georgia had earlier shown their interest for organizing the 14th IDW which is now on hold due on account of local re-organization, as informed by the Russian local representative. WG organized a Workshop on "Dry Drainage and Bioreactors or Green Infrastructures" on 12 August 2018 at Saskatoon, wherein nine papers were presented.

PCTA Minutes Item 9.5: Working Group on Water Saving in Irrigated Areas (WG-WATS)

49. Mr. Mortaza Yazdekhashti presented the report of the WG on behalf of its Chair, Dr. Kamran Emami. ENCID brought out a book on “Water Saving in Irrigated Agriculture in Egypt – case studies and lessons learned” jointly authored by Mohamad Hassan Amer, Seyed Ahmed Abd El-Hafez and Mohamed Bakr Abdel Ghani. Dr. Joe Stevens and VPH Dr. Gerhard Backeberg finalized the draft framework of the paper on Water Saving which was sent to all members for their inputs and contributions before finalizing it for publication in the Journal. The group nominated Prof. (Ms.) Kyung–Sook Choi (Korea) for updating MTD terms related to the WG.

PCTA Minutes Item 9.6: Synthesis Report by Co-Theme Leaders on ST Schemes [VP Ian William Makin (UK), VP Irene Bondarik (Russia) & VP Dr. Brian T. Wahlin (USA)]

50. The Co-Theme Leaders of ST-Schemes presented their synthesis report which was noted with satisfaction by the Committee.

PCTA Minutes Item 10: Newly Proposed Workbodies

51. The Committee reminded itself that a mechanism has been put in place with a view to streamline the process of establishment of a new workbody or extension of an existing workbody on completion of its tenure. The mechanism in the form of Scoping Document approved by 63rd IEC the improvement in the functioning of ICID workbodies (*Annex R2.2 of Resolution IEC-2/63*) and exhorted all to follow the same in letter and spirit for establishment of new workbodies. The Committee emphasized that the Scoping Document should give the objectives, state of knowledge on the topic, work plan etc. of the newly proposed workbodies.

52. During the discussion in 36th PCTA meeting in Chiang Mai, the issue of lack of interest in certain WGs was expressed. It is therefore recommended that unless interest is expressed by at least 10 NCs in supporting the WG, it could at best be established as a Task Team for keeping the interest in the topic live. These TTs should essentially work towards a well-defined objective and predominantly through Web based tools. As the implementation of the Road Map needs partnership, it is important that the WG should actively seek potential collaboration with international partners and take those activities in account while drawing up their plan.

53. PCTA recommended for the re-establishment of the WG on Value Engineering (WG-VE) and WG on Non-Conventional Water Resources for Irrigation (WG-NCWRI), subject to at least 10 National Committees agreeing to nominate experts from their countries to the activities of the respective WGs. The Committee also recommended that the mandates of WG-NCWRI as given below, be approved by the Council.

- (a) Exchanging knowledge, experience and data as well as networking on the topic in order to be up-to-date with new developments, methods and approaches.
- (b) Preparing comprehensive reviews and prospects with respect to different aspects of NCWR.
- (c) Producing technical manuals, guidelines or standards with respect to all NCWR including waste water, drainage water and saline/brackish water.
- (d) Organizing international workshops, seminars and meetings on the NCWR topic.
- (e) Producing documents on successful case studies with the new developments with respect to NCWR presented by the members from different countries.
- (f) Enlarging the membership of the WG by encouraging more member countries where the use of non-conventional waters is a common practice for irrigation management.
- (g) Finalizing the publication of a Technical Paper pending from the activities of the WG-PQW.

54. The Committee recommended for the establishment of a TF to Guide ICID Inputs to 9th World Water Forum (TF-WWF9) and in-principle approval for establishment of WG-AFM as 9 NCs/direct members have shown interest in its mandate and nominated experts. CO to follow-up with WG-Chair for getting nomination from more NCs. MB to take final decision on establishment of WG-AFM as well as continuation of the WG-Chair.

55. The Committee noted the establishment of a Task Team on Rain Water Harvesting (TT-RWH), at the initiative of Australian NC as this topic was not covered under the mandates of any of the existing workbodies, yet the topic is part of ICID Vision 2030.

PCTA Minutes Item 11: Report of the Sub-Committee on Themes, Topics and Work Plans of future ICID Events (SC-E-THEMES)

56. The Committee recommended for the approval of the Sub-Committee’s recommendations to work out the structure of meetings related to IEC and to draw guidelines to make the WG meetings/sessions technically richer

and beneficial to the stakeholders and industries by exploring the ways of combining the meetings of work bodies with areas of common interest.

57. It was reiterated that there is a strong need for improvement in the quality of papers being submitted to Congress and WIFs.

58. The Committee recommended to the Council for approval of the topics for Theme and Sub-Themes for 4th World Irrigation Forum (WIF4) in 2022 and Theme and Questions for 25th ICID Congress (2023) as given below:

WIF4 (2022)

Theme:	Modernization of Irrigation Schemes
Sub-Theme 1:	Policy and strategy for modernization of irrigation schemes
Sub-Theme 2:	Technology for modernization of irrigation schemes
Sub-Theme 3:	Investment for modernization of irrigation schemes
Sub-Theme 4:	Performance Assessment of Irrigation Schemes

25th Congress (2023)

Theme:	Tackling Water Scarcity in Agriculture
Question 64:	Innovative water resources that could be tapped for irrigated agriculture?
Question 65:	On-farm techniques for saving water?

59. It was pointed out that the coverage of drainage and flood management areas are being sidelined in the organization of events. A large group of participants may also consequently remain away from ICID activities. The Committee felt that the Drainage workshop and events examining flood forecasting techniques need be organised.

PCTA Minutes Item 12: Any other business

60. A presentation to be made on water accounting by Dr. Sahdev Singh, Director (KM) could not be taken up due to paucity of time.

61. A proposal was made for establishment of a Task Team on Transboundary Water Management and Effect on Agriculture Water Management with the following mandate.

- (a) To promote transboundary river water cooperation to address water security
- (b) To mobilize strategies and resources for effective transboundary river water governance to address the challenges of water-food-energy security nexus towards strengthening sustainable livelihoods
- (c) To strategize the process of creating a knowledge hub and facilitate best practices of transboundary cooperation and support other core activities of ICID

62. It was decided to circulate the Scoping Document for establishment of TT and recommended that the Council may provide in-principle approval, considering the suggested mandates for the TT.



**MINUTES OF THE 29TH MEETING OF THE
AFRICAN REGIONAL WORKING GROUP (AFRWG)**

14 August 2018, 09.00-10.30 hours (Session I) and 11.00-12.30 hours (Session II)
Saskatoon, Saskatchewan, Canada

Presented by the Chairman

Year of Establishment: 1994

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

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

Members Present: (1) Dr. Sylvester Mpandeli, Vice Chair (South Africa); (2) Engr. Amali Abraham Amali – Young Professional, Secretary (Nigeria); (3) Mr. Abdullahi Hassan Hussein – Young Professional (Somalia).

Observers: (1) Ahmed El Bouari (Morocco); (2) Mohamed Ouhssain (Morocco); (3) Ben El Mamoune Mohammed (Morocco); (4) Bartali El Houssine (Morocco); (5) Kunle Abidoye (Nigeria); (6) Abdulkareem Dahiru (Nigeria); (7) Omata Ali (Nigeria); (8) Sunmonu Kenneth (Nigeria); (9) Engr. A.A. Adenopo (Nigeria); (10) Engr. Dr. Elijah A. Aderibigbe (Nigeria); (11) Engr. David West Tonye Uirah (Nigeria); (12) Engr. Muhammad Sani Bala (Nigeria); (13) Engr. Christy Omeno Oduh (Nigeria); (14) Engr. J.C. Umechukwu (Nigeria); (15) Aidan Senzanje (South Africa).

AFRWG Minutes Item 1: Action taken report by Chair

1. In absence of Chair VPH Dr. Mohamed Wahba, Dr. Sylvester Mpandeli, Vice Chair conducted the meeting as 'Acting Chair' and welcomed the members and presented the actions taken on the proposals of the working group held at its last meeting at Mexico City in October 2017.

2. The group noted that the Training Needs Assessment (TNA) was prepared and circulated to all African NCs. English and French version of TNA were prepared and uploaded on the website of AFRWG and circulated to all NCs. The final version of TNA was first circulated to all NC's and about 26 replies were received from 6 NCs (Egypt, Sudan, Morocco, Somalia, Nigeria, and Ghana). An analysis for the received replies was carried out and a draft report was prepared. The TNA was once again re-circulated to all NCs and new replies were only received from ENCID. Additional analysis as received for TNA was presented by Eng. Amali at the meeting. The group noted that as per the reports of the Chair, no virtual meeting of the WG was organized since last meeting of the WG in Mexico in October 2017. But during the year, there were many activities and discussions were carried out through emails and WhatsApp. WG also commended the active participation of the new Secretary of the WG - Eng. Amali Abraham Amali (Nigeria) during the year and his great contribution in TNA analysis and reporting as well as preparing a proposal for Capacity Building for YPs.

AFRWG Minutes Item 2: Road Map to ICID Vision 2030 – Status of activities in African region

3. The group reviewed and discussed the Road Map to ICID Vision 2010 (refer **Annex**). With efforts from the Chair, an MOU between Morocco National Committee on Irrigation and Drainage (ANAFIDE) and Egyptian National Committee on Irrigation and Drainage (ENCID) is expected to be signed during the Cairo Water Week in October 2018. It was also informed that a draft MOU between Egyptian National Committee on Irrigation and Drainage (ENCID) and each of Sudanese, Russian and Italian NCs is also under discussion. Chair encourages all African NCs to take actions towards the bilateral cooperation to exchange knowledge, experiences and information.

4. A brief on the Chair's first meeting with the Young Professional Working Group of the Egyptian National Committee (ENCID) on 14 May 2018 was also presented to the RWG. It was informed that during meeting with YPs the objectives of ICID and its activities, the role of the National Committee and the tasks of the working group were shared with YPs. Dr. Mpandeli stressed on the need to maximize the benefit from the activities for the group along with the proposals for various activities in the Youth Forum during the first Cairo Water Week to be held from 14-18 October 2018 in Egypt. The chair also made further efforts towards encouraging the establishment of YP-WG at African NC's level and the National Committee of Egypt, Morocco and Sudan had already taken action and the YP-WG established, a group on WhatsApp and at e-mail are already active and the dissemination of publication, bulletin, news update are circulating to the members of the YP-WG. Chair encouraged other NCs like South Africa, Nigeria, Ethiopia and Somalia to take the same action towards the establishment of YP-WG at their national levels.

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

5. During the meeting, WG deliberated on the preparation of the Position Paper on Green Revolution in Africa. Members were encouraged to capitalise on the planned event of Alliance for Green Revolution in Africa (AGRA) in September 2018 to gather information and initiatives from different areas in Africa. Members noted that a table of contents was prepared and circulated to the different NCs and informed of the slow progress made so far towards the first draft of the position paper. To this, ANAFIDE raised their willingness to give support and make progress with the position paper. With their recent positions, they stated the availability of information within their reach and willingness to share such information for the benefit of the entire region. The group further stressed the need to finalise the position paper before the next meeting in Bali in 2019. It also emphasised the need to collaborate and discuss with other organisations such as the Alliance for Green Revolution (AGRA). The Vice-Chair further re-emphasised the position of SADC to lease and collaborate with other organisations involved in agriculture and will work towards having a draft report before Bali in 2019 and encouraged the support of other NCs so as to produce a report reflective of the strides the continent is making towards Green Revolution.

AFRWG Minutes Item 4: Progress on implementation of the action program for Africa - Strategy for capacity building in Africa (Training Needs Assessment Report)

6. During the meeting, the WG discussed the progress made by the TNA and encouraged other NCs to look at the TNA and make possible inputs to have a clear reflection about activities taking place within the African Region. The group also discussed the need of the TNA and the next steps to be taken after the TNA which is to seek proposals and co-operations to address the gaps that will be identified by the report to strengthen capacity within the African continent. The Vice Chair highlighted that few NCs have agreed to make inputs including SANCID for which the Chair agreed to follow up with SANCID and ensure inputs be received from NCs to finalise implementation. The group also discussed the initiative as not a once-off process but an ongoing activity of continuous monitoring and come up with a draft final report on the TNA.

7. The Secretary presented analysis and report of the TNA after the first and second submissions on TNA from the NCs. The group discussed the analysis already made on the submitted TNA and the sparse distribution of received submissions which already indicated a gap in the draft report. In consideration of the difference between the analysis of the first set of submissions and the second submissions, the group highlighted on the need to have more applicants covered within the TNA to have an analysis reflect the entire African region. Due to time consideration, the group decided to proceed with the submission and analysis received so far but proposed a deadline of 30 November 2018 which will be finalised in consultation with the Chair.

AFRWG Minutes Item 5: Exchange of information, knowledge and experience (progress in activating Young professional working group at Africa NC's)

8. During the meeting, the WG discussed on the exchange of information between African NCs and the need for NCs to share and exchange information, upload reports and scientific papers generated through different mechanisms which should be submitted to the Central Office for uploading on the website. The Vice Chair raised the socio-economic challenges the regions in Africa are facing and the role of exchanging ideas and learning lessons from different NCs and to showcase activities taking place within different NCs. The group also reflected on the need for NCs to sign MOUs within themselves and other organisations within and outside Africa so that it will help in achieving set objectives, to facilitate information exchange within the continent ranging from technical to scientific information. The group's attention was drawn to rising need for Young professionals and the need for capacity building within them. Reflecting on the formation of a Young Water Professional Forum in Egypt and Morocco, the efforts by a Young Professional in establishing the YPF by Somalia NC, the group discussed the need for other NCs to take up the initiative to activate such groups within their committees. The group also attempted to define those that fall within the Young Professional category so that NCs can return and sensitise those who fall within the group and agreed to maintain the ICID defined age limit of Young professionals of 40 Years.

9. The Vice-Chair capitalising on the discussion, highlighted on how other NCs in Africa have supported the activities of the WG and encouraged African National Committees to support Young Professionals within their countries and move them forward to participate in various events such as in the planned First African Young Water Professionals Workshop scheduled during the Cairo Water Week from 14-18 October 2018 in Cairo Egypt.

AFRWG Minutes Item 6: Updates on Regional Irrigation Associations- SARIA, NARAID, ARID-RAID by the Chair or Representative

10. The Vice Chair highlighted various activities taking place within the SARIA region such as a SARIA Workshop held in May 2018 in KwaZulu-Natal Province of South Africa on "Agribusiness and Value Chain: A Rapid Transformation of Agri-Food Systems" drawing participants from different countries within the SADC region with remarkable attendance, presentations from different institutions in collaboration with CSIRO in Australia and field

excursions to overlook agricultural water management activities taking place in different irrigation schemes. A steering committee meeting was also held where it was decided that from 2019, activities will be combined with NCs and the first initiative will be hosted by SANCID in 2019 and SARIA will provide support in accommodation and logistic with invitation to other NCs and call for submission of abstracts. NINCID reiterated their plans to have another meeting on return from the conference and to be followed by a workshop to fully reactivate NINCID and put all facilities in place and take over activities within the West African Region. The Vice Chair further encouraged NCs and regional blocks to work together and support agricultural water management in their regions.

AFRWG Minutes Item 7: Updates on activities of member countries - First African Young Water Professional's Forum (Af-YWPF) in October 2018 in Cairo, Egypt and Establishment of AF-IYPEF

11. The Vice Chair highlighting the support of SANCID towards sponsoring one YP to attend the training workshop to be held during the Cairo Water Week encouraged other NCs to support this forum and take advantage of the opportunity it provides. The WG activities within the last year was heavily focused in this area and the secretary presented a report on preparations so far highlighting areas where support was received in financial and human resources towards the success of the workshop. In addition, the training topics were selected before the TNA analysis to enable proposal preparation and contacting prospective trainers, but for the First African Young Professionals Workshop in Rabat Morocco, the training topics will be selected in consideration with the report of the TNA analysis. Reflecting on areas of support, the group also discussed the need for NCs to sponsor Young Professional delegates to attend the workshop rather than leave the task to other NCs and organisations. The Vice Chair further encouraged NCs to send and sponsor delegates to attend the workshops.

AFRWG Minutes Item 8: 5th African Regional Conference on Irrigation and Drainage, 16-18 March 2020, Rabat, Morocco (presentation by Dr. El-Hussein Bartali, Vice president of ANAFIDE)

12. The Vice Chair reiterated the commitment of the WG towards supporting ANAFIDE to successfully host the 5th African Regional Conference on Irrigation and Drainage. ANAFIDE re-ensured their commitment towards hosting of the 5th African Regional Conference and informed that they have fulfilled all the requirements given by the ICID Central Office and set date for Conference with copies of the First Announcement distributed to the WG. ANAFIDE reinstated their commitment to support other NCs towards attending the Conference and called on support from other NCs towards a successful event. NINCID sought confirmation on the frequency of the Regional Conference to enable her plan towards hosting in coming years. The group discussed on an interval of 2–3 years and reinstated the Central Office's commitment towards supporting initiatives by the Regional Working groups. The group also discussed challenges within the WG which include the readiness and preparedness of the different NCs to take up the responsibility of hosting the regional conference. The Vice Chair further stressed the need to go beyond verbal commitment by NCs to legal commitment with government support towards such event to avoid last minute preparation. With this, the Vice Chair commended ANAFIDE for formalising all necessary arrangement far ahead of the regional conference. The group also discussed the need to create more avenues for meetings to discuss issues that concerns the WG and the continent at large but even if financial constraints limit frequency of meeting, it is possible to take advantage of virtual platforms for meetings.

AFRWG Minutes Item 9: Progress for the proposed third node for IRPID for African region

13. With regards to the third node of for IRPID, the group discussed the need to work jointly to maximise limited resources and find common grounds with which they can relate. Joint programs were discussed within the framework of the Euro-Mediterranean Commission and link with capabilities of organisations such as IFAD and FAO and link the third node with European Countries. Vice Chair stressed need to take advantage of the new opportunity of the equipment in the Irrigation and Drainage Centre, proposal for new efficient drip irrigation materials to be subsidised for farmers. Discussions are open for best feasible formation and offered to host events leading to research programs that will cover the needs of Italy, Sudan, Egypt, and Morocco.

AFRWG Minutes Item 10: Any other business

14. The Vice Chair stressed on the need of information sharing on current trends and research across different African NCs and ensure information is circulated and the activities of the AFRWG is well profiled. The future plans of the Young Professionals Forum were presented to the group including declaration of establishment of the forum, election of coordinators, discussions through virtual platforms, training and capacity building as well as the plan to organise the First International Young Professionals Workshop during the 5th African Regional Conference in Cairo, Egypt. The group encourages NCs to establish Young Professional Groups and to participate in Webinars and web-based seminars.

15. SANCID briefed the group of ongoing plans to establish a group of YPs at National and state level and conduct technical studies to learn from irrigation activities within the African Region and requested support from other NCs. It was highlighted that the National Irrigation Policy, National Policy Law 2019, 3-4 technical studies in African Countries and requests the support of NCs when the need arises and in line with the ICID Vision in general.



ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal B: Be a Catalyst for Change in Policies and Practices							
B1. Strategy: Supporting Development of Appropriate Policies	1.15 Position Paper on Green Revolution in Africa	Position paper	Prepare the draft paper	Finalise the paper			
GOAL C: Facilitate exchange of information, knowledge and technology							
C3. Strategy: Promoting Regional Cooperation	3.4 Activate or Establish Regional/sub-regional WGs	Regional WGs	Collaboration with AfYWP-Forum				
Goal F: Facilitate capacity development							
F2. Strategy: Support Capacity Development Activities of Member Countries	2.4 Strategy for capacity building in Africa	Strategy/ Policy	Identify new themes and revise the strategy	Update the strategy			

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE PREPARATORY MEETING FOR ESTABLISHING
AMERICAN REGIONAL WORKING GROUP (AMRWG)**

15 August 2018, 09.00-10.30 hours (Session-I)

15 August 2018, 11.00-12.30 hours (Session-II)

Saskatoon, Canada

Presented by the Chairman

Summary of the Proceedings of the Meeting:

1. The Working Group had informal discussion on possible barriers for South American countries to join ICID. Observers Ir. Pilar Gil (Chile) suggested that informal networks of professionals who are interested in irrigation and drainage could be used as a 'grassroots' approach to building interest and potential membership in ICID.
2. PH Peter S. Lee (UK) advised on direct membership options. WG members were encouraged to explore existing contacts / networks with South American countries as a mechanism to develop interest in ICID. WG discussed the possibility of asking a VP to write introduction letters and send to WG member contacts, and provide ICID promotional material to be presented at the conferences / meetings.
3. WG appointed Dr. Warren Helgason (CANCID) as Interim Chair for this WG to lead the promotional activities during 2018-19 and provide a report during Bali meetings in September 2019.

Observations:

(i) Feedback from 'Special Session of Latin Americas' held on 14 August 2018 at Saskatoon, Canada

It was noted that the Special Session of Latin Americas could not be held due to lack of attendance during the event.

(ii) Regional Membership of ICID

PH Peter S. Lee, Chair of TT-RO apprised the members and provided updates on direct member options for individuals and associations in South American countries as an option to develop ICID interest / capacity where national committees do not exist.



**MINUTES OF THE 25TH MEETING OF THE
ASIAN REGIONAL WORKING GROUP (ASRWG)**

14 August 2018, 09.00-10.30 hours (Session I) and 11.00-12.30 hours (Session II)
Saskatoon, Saskatchewan, Canada

Presented by the Chairman

Year of Establishment: 1996

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

Members Present: (1) VP Naoki Hayashida, on behalf of Chairman (Japan); (2) Mr. Wang Aiguo (China); (3) Dr. Ray-Shyan Wu (Chinese Taipei); (4) Dr. Mochammad Amron (Indonesia); (5) Prof. (Ms.) Kyung Sook Choi (Korea, Rep. of); (6) Ir. Ahmad B. Darus represented Ir. Syed Abdul Hamid bin Syed Shuib (Malaysia); (7) Mr. Bashu Dev Lohanee (Nepal); (8) Mr. Dilshod Kimsanov (Tajikistan); (9) Mr. Arthon Suttigarn (Thailand); (10) Dr. Vijay Labhsetwar, ICID Central Office (India) representing Secretary General, ICID.

Observers: (1) VPH Hafied Gany (Indonesia); (2) VPH Shinsuke Ota (Japan); (3) Mr. Lihui Gao (China); (4) Dr. Jih Shun Liu (Chinese Taipei); (5) Dr. Sinite Yu (Chinese Taipei); (6) Prof. Ruey-Chy Kao (Chinese Taipei); (7) Mr. Yu-Chuan Chang (Chinese Taipei); (8) Dr. Momon Sodik (Indonesia); (9) Mr. Syaiful Mahdi (Indonesia); (10) Mr. Iwan Nursyirwan (Indonesia); (11) Mr. Mitsuo Ishijima (Japan); (12) Mr. Hidefumi Murashita (Japan); (13) Dr. (Ms.) Naoko Koshiyama (Japan); (14) Mamoru Watanabe (Japan); (15) Dr. Shinji Fukuda (Japan); (16) Dr. Tsugihiko Watanabe (Japan); (17) Mr. Jeongryeol Jang (Korea, Rep. of); (18) Mr. Jungseok Jang (Korea, Rep. of); (19) Ms. Hyeyun Kim (Korea, Rep. of); (20) Mr. Woohan Ryu (Korea, Rep. of); (21) Mr. Won-Yeop Baek (Korea, Rep. of); (22) Mr. Jaepil Cho (Korea, Rep. of); (23) Ms. Sanghee Park (Korea, Rep. of); (24) Mr. Chansung Oh (Korea, Rep. of); (25) Prof. Wonho Nam (Korea, Rep. of); (26) Seung Hwan Baek (Korea, Rep. of); (27) Min Gyu Jeong (Korea, Rep. of); (28) Hee Yeong Jo (Korea, Rep. of); (29) Tae-hyung Lee (Korea, Rep. of); (30) Song Ah Chae (Korea, Rep. of); (31) So Young Lee (Korea, Rep. of); (32) Nor Hisham Ghazali (Malaysia); (33) Dr. Zaw Latt (Myanmar); (34) Mr. Romeo G. Gan (Philippines); (35) Mrs. Piupina P Bermudez (Philippines); (36) Mrs. Josephine D Salazar (Philippines); (37) Mrs. Isidora M Camaya (Philippines); (38) Mr. Bahkrom Gaforzoda (Tajikistan).

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

ASRWG Minutes Item 1: Action taken report by Chair

1. In absence of VPH Karim Shiati, VP Naoki Hayashida (Japan) conducted the meeting as 'Chair'. Chair welcomed the members and presented the report on the actions taken on the decisions and proposals of the working group at its last meeting held at Mexico City in October 2017. Chair proposed to organize virtual meetings on WebEx platform to promote WG activities and frequent involvement of the members in the WG discussions.

2. The group reviewed the nominations of Mr. Dilshod Kimsanov (Tajikistan), Dr. Ray-Shyan, Wu (Chinese Taipei), and Dr. Vijay Labhsetwar (India) for the membership of the group. The nominee attended and introduced themselves during the meeting. Their membership of the WG was accepted. The participant from the Philippines showed the intention to join the WG. Chair suggested to submit the official nomination to the Central Office through Philippine National Committee (PNC-ICID).

3. The members, Mr. Shaimaa Shihab Ahmed (Iraq) and Mr. Ammar Salah Ahmed Manhee (Iraq) - Young Professional, had neither participated nor contributed to the activity of the WG, so the group decided to discontinue their membership as per ICID By-law 3.5 and request the IRQCID for a new nomination. Membership status is available at **Annex 1**.

ASRWG Minutes Item 2: Road Map to ICID Vision 2030 – Status of activities in Asian region

4. During the meeting, Chair reviewed the activities of the WG listed in the action plan of the WG towards Road Map to ICID Vision 2030 (refer **Annex 2**). The group discussed the Road Map to ICID Vision 2030 and Chair provided latest updates including the new activity to promote the Technical Support Program (TSP) among Asian NCs.

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

5. The group reviewed updates on linkages with regional and transnational organizations for cooperation. The MoUs were signed between KCID and CTCID, KCID and NENCID in 2017. The MoUs between CTCID and INACID, CTCID and MANCID, INACID and MANCID will be signed respectively by the end of 2018.

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

6. Chair briefed the 14th INWEPF Symposium and Steering Meeting organized by National Irrigation Administration (NIA) from 21-22 November in 2017 at Clark Special Economic Zone in the Philippines. The WG noted that the PAWEES-INWEPF International Conference 2018 on the theme “Promoting sustainable paddy farming to achieve the SDGs” will be held from 20-22 November 2018 at Nara, Japan. The Secretary General of the INWEPF Japanese Committee, Mr. Mitsuo Ishijima provided the information of the background, purpose and activities of the INWEPF and the Nara conference. Chair requested members to participate in the above conference and contribute to it by submitting abstracts/ papers.

ASRWG Minutes Item 5: Publications of the Working Group

7. Prof. Kyung Sook Choi (Korea) presented the publication of the report on “*Contribution of Agricultural Water to the Rural Development in Asia*” and informed the WG about its formal release at the 8th Asian Regional Conference (ARC) in Nepal in May 2018. Chair expressed wholehearted appreciation to the work team Chairperson Prof. Kyung Sook Choi, other members and ICID Central Office for bringing out this useful and important technical report. The e-version of the report is available at http://www.icid.org/8th_arc.html for download.

ASRWG Minutes Item 6: Brief report of 8th Asian Regional Conference (ARC), 2-4 May 2018, Kathmandu, Nepal

8. The WG noted the successful organization of the 8th Asian Regional Conference (ARC) where in more than 600 participants attended the conference held in Kathmandu, Nepal in May 2018. Mr. Bashu Dev Lohanee (Nepal) provided more information on the ARC.

ASRWG Minutes Item 7: Brief report of Capacity development programme for Young Professionals from Asian region, April 2018, China

9. The WG noted the organization of Capacity Building Training Program by the Chinese National Committee on Irrigation and Drainage (CNCID) with support from the Korean National Committee on Irrigation and Drainage (KCID) and the five-day Young Professional training program to hone the skills of the budding young professionals on the theme “Performance Assessment of Irrigation Systems” from 9-13 April 2018 at China Hall of Science and Technology in Beijing, China.

ASRWG Minutes Item 8: Any other business

10. KCID provided information on the international conference and knowledge sharing program training on hydraulics in the fields of ocean, tidal, river and coastal fields.

11. CNCID announced that they had started the special support program for master’s degree for some Asian developing countries, and requested to submit two candidates per a country.

12. The meeting ended with thanks to Chair.



Annex 1 [Appendix VI, Item 1]

A. Membership of Asian Regional Working Group (ASRWG)

Sl. No.	Countries (Year of joining)	Present representatives (Year of Joining)	Remarks
1.	Iran (1955)	VPH Karim Shiati, Chairman, 2006 (1997)	Attended meetings in 2016 & 2017 and contributed
2.	India (1950)	Dr. Vijay K Labhsetwar	Attended meeting in 2018
3.	India (1950)	Dr. Rajinder Kumar Gupta -Direct Member (WAPCOS) (2014)	Contributed an abstract for internal workshop in 2015
4.	Indonesia (1950)	Dr. Mochammad Amron (2015)	Attended meetings in 2016, 2017 and 2018
5.	Thailand (1950)	Mr. Arthon Suttigarn (2012)	Attended meetings 2015 ,2016 and 2018
6.	Japan (1951)	Mr. Naoki Hayashida (2014)	Attended meetings in 2016 , 2017 and 2018
7.	Turkey (1954)	Dr. Aynur Fayrap (2012)	Attended meeting 2015 and represented in 2016
8.	Malaysia (1958)	Ir. Syed Abdul Hamid bin Syed Shuib (2013)	Represented by MANCID in 2016 , 2017 and 2018
9.	Sri Lanka (1950)	Eng. W.B. Palugaswewa (2016)	Provisional Member
10.	Australia (1952)	Mr. Stephen Mills (2015)	Attended in 2016
11.	Pakistan (1953)	Mr. Ahmed Kamal (2017)	Represented by PANCID in 2017
12.	Philippines (1956)	Representative from PNC-ICID	PNC-ICID has been requested to send nomination for the Group
13.	Myanmar (1962)	Dr. (Ms.) Mu Mu Than (2017)	Attended in 2017
14.	China (1963)	Mr. Wang Aiguo (2016)	Attended meetings in 2016 ,2017 and 2018
15.	Chinese Taipei (1969)	Dr. Ray-Shyan Wu (2018)	Attended meeting in 2018
16.	Korea, Rep. of (1970)	Prof. (Ms.) Kyung Sook Choi (2015)	Attended meeting in 2017 and contributed in 2016 , 2017 and 2018
17.	Korea, Rep. of (1970)	Ms. Jeong Min, Ryu – Young Professional (2017)	Attended meeting in 2017
18.	Nepal (1973)	Mr. Bashu Dev Lohanee (2017)	Represented by NENCID in 2017 and attended meeting in 2018
19.	Bangladesh (1973)	Representative from BANCID	BANCID has been requested to send nomination for the Group
20.	Uzbekistan (1994)	Mr. Ilkhom Juraev (2015)	Contributed in 2016
21.	Tajikistan (1997)	Mr. Dilshod Kimsanov	Attended meeting in 2018
22.	Iraq (2006)	Representative from IRQCID	IRQCID has been requested to send nomination for the Group
23.	Kazakhstan (2006)	Representative from KAZCID	KAZCID has been requested to send nomination for the Group
24.	Afghanistan (2017)	Representative from AFGICID	AFGICID has been requested to send nomination for the Group
25.	Vietnam (2018)	Dr. Dao Trong Tu (2018)	Provisional Member

Annex 2 [Appendix VI, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal C: Facilitate exchange of information, knowledge and technology							
C3. Strategy: Promoting Regional Cooperation	3.5 Enhance Linkages between National Committees for International Cooperation	Technical Report					
	3.6 Broaden relationship and mutual understanding and cooperation between NCs from developing countries and developed countries	Collaboration/ MoU	Exchange visits/ training between TUCID and IRNCID MoU between IRNCID and KCID				
	3.7 International conference/ workshop/ seminar	Compilation of proceedings		8 th Asian Regional Conference , May 2018, Nepal			
C4. Strategy: Compile, Collate and Share Knowledge and Experiences	4.4 Special joint Publication on Agricultural Water Management for Sustainable Rural Development	Side Event with AARDO	Special Issue of AARDO Journal				
	4.21 Report on “Contribution of Agricultural Water to the Rural Development in Asia”	Technical Report	Publish the Technical Report based on workshops/ Side Event	Formal release of the Report at 8 th ARC.			
GOAL D: Enable Cross Disciplinary and Inter-Sectoral Engagement							
D3. Strategy: Facilitate Development of Inter-sectoral Platforms Involving NCs	3.1 Developing inter-sectoral engagement		Collaboration between PAWEES and ASRWG				

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 24TH MEETING OF THE
EUROPEAN REGIONAL WORKING GROUP (ERWG)**

14 August 2018, 09:00-10.30 hours (Session-I)
14 August 2018, 11:00-12.30 hours (Session-II)
Saskatoon, Saskatchewan, Canada

Presented by the Chairman

Year of Establishment: 1995

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

Members Present: (1) Vice President Ian Makin (UK), Chairman; (2) Mr. Olli-Matti Verta (Finland) represented by Mrs. Helena Äijö; (3) Dr. Sami Bourfa (France) represented by Dr. Dominique Rollin; (4) VPH Dr. Laszlo Hayde (Hungary); (5) Dr. Marco Arcieri (Italy); (6) Dr. (Mrs.) Irene G. Bondarik (Russia); (7) Vice President Prof. Charlotte de Fraiture (The Netherlands); and (8) Mr. Hannes Puu (Estonia).

Observers: (i) PH Peter S. Lee (UK); (ii) PH Bart Schultz (The Netherlands); and (iii) Dr. Herve Plusquellec (France).

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

ERWG Minutes Item 1: Action Taken Report by Chair

1. Vice President Hon. Ian Makin (UK), Chair of the WG presented a report on the actions taken on the decisions and proposals of the European Regional Working Group at its 23rd meeting held at Mexico City, Mexico in October 2017.
2. WG Chair informed that no virtual meetings of the WG could take place since the last meeting of the WG in Mexico in October 2017.
3. No new nominations for membership of the ERWG were received from NCs during the year. Present membership status of ERWG is at **Annex 3 (page 51)**.

ERWG Minutes Item 1.1: Strengthening the membership in Europe

4. There was a lively discussion about the development of ICID membership among countries in Europe. The WG members noted that there have been repeated occurrence of extreme weather events in Europe in recent years and there appears to be an evident need for specialists with expertise aligned with ICID membership. ICID can facilitate networking among specialists and contact with other relevant entities, such as FAO and other UN organizations. However, the WG noted that the members and sponsors of the National Committees is some European member countries are questioning the benefits of membership of ICID. This suggest, the ICID “value proposition” is no longer sufficiently attractive in the context of the European countries. The ERWG members proposed to discuss, through WebEx, what form of value proposition would be relevant to European regional countries to (i) retain current members; (ii) re-engage with the current associate member countries; and (iii) attract new member countries and/or individual members of ICID.

ERWG Minutes Item 2: Road Map to ICID Vision 2030 – Status of Activities relevant to European Region

5. The Group reviewed the Action Plan (Road Map to ICID Vision 2030) for European Regional Working Group (ERWG) shown in **Annex**. As discussed in the following sections, progress towards the 2018 milestones on the three goals: (i) B1 – Supporting development of appropriate policies; (ii) C3 - Promoting regional cooperation; and (iii) F1 – Enhancing institutional capacity development in member countries is less than planned. As noted below, Para 6, the ERWG is working towards support for drought mitigation policy guidance; and, Para 7, the Group noted that the proposed workshop on agricultural water management could not be held in Saskatoon, however in order to enable maximum participation of European members it may be appropriate to hold a workshop alongside the Baltic region workshop in 2019. To support regional cooperation and knowledge sharing, AFEID drew attention to a two-day workshop on evaluation of irrigation materials for certification of eligibility for inclusion in applications for subsidies for replacement of irrigation infrastructure for water saving.

ERWG Minutes Item 3: Seminar/Session of the WG related to Agricultural Water Management in Europe

6. ERWG discussed a proposal for a workshop during Third World Irrigation Forum (WIF3) to be held in September 2019 at Bali, Indonesia on the preparation of a legislative framework for mitigating drought in Europe. The proposed workshop would develop a document, a guideline, or scoping document for a potential ICID Task Force on drought mitigation. Dr. Marco Arcieri agreed to coordinate the development of activities that could lead eventually to a workshop at WIF3 in Bali. A submission to PCTA is proposed for consideration in Bali in 2019 for development of a new task force.

7. The proposed workshop on agricultural water management (AWM) was not held in Canada. The ERWG agreed that a workshop on AWM in Europe would be unlikely to attract a large participation in Bali and therefore will not be scheduled for WIF3 in Bali 2019; however, it may be possible to schedule a workshop back-to-back with the Baltic Drainage seminar; held annually in May or June.

8. AFEID will arrange a two-day conference in Montpellier in autumn 2019. The event will bring together European actors from the agricultural profession (chambers of agriculture), the management authorities of the PDRRs (Regional Rural Development Plans), the Technical Institutes, and research organizations. The objectives of this conference are:

- (a). Share the methodologies used in the various European countries for the ex-ante evaluation of irrigation materials for potential water savings and eligibility for European subsidy payments;
- (b). Present the French methodology, established by IRSTEA at the request of the Ministry of Agriculture; and
- (c). Share feedback on water savings achieved by a change of equipment or adoption of piloting tools in different countries.

ERWG Minutes Item 4: Review of policy issues impacting irrigation and drainage sector

9. Dr. Marco Arcieri (Italy) will look at the history of the framework directive. PH Bart Schultz (The Netherlands) and VPH Laszlo Hayde (Hungary) agreed to support him.

10. The International Symposium organized by ISHS – International Society for Horticultural Science, will be held in June 2019 at Matera, Italy.

ERWG Minutes Item 5: Links with regional and trans-national organizations for co-operation

11. The WG reviewed the list (Annex 3 Agenda page 3, 67-68) of cooperating organizations, reducing the list to organizations with a reasonable expectation of collaboration in the coming years.

ERWG Minutes Item 6: Activities of Focus Groups of ERWG

12. Members of the ERWG are active in a range of ICID working groups and task forces. However, the following five Focus groups are considered, particularly relevant to Europe:

- (a). Focus Group on History (VPH Laszlo Hayde), WH-HIST;
- (b). Focus Group on Environment (Mrs. Seija Virtanen);
- (c). Focus Group on Sustainable Drainage renamed as Working Group on Sustainable Drainage, WG-SDRG (Bernard Vincent; Dr. Irena Bondarik);
- (d). Focus Group on Water Related Risks (Prof. Klaus Roettcher & Mr. Olli-Matti Verta), and
- (e). Focus Group on Irrigation and Drainage in the States under Socio-economic Transformation, WG-IDSST (VPH Peter Kovalenko).

13. VPH Laszlo Hayde (WG-HIST) and VP Irena Bondarik (WG-SDRG) gave a brief update on the activities of the working groups.

ERWG Minutes Item 7: Revitalization of ICID Network

14. The WG discussed that ICID needs to be more relevant to the problems being faced by European countries and there may be more number of Direct Members from Europe, in terms of remaining ToRs 3 and 4 of erstwhile TF-REV to study the financial and operational arrangements of European NCs and the reasons for their withdrawal from the membership of ICID in the recent past which was subsequently approved by IEC vide IEC Resolution - 2/69.

15. The WG proposed to establish a Task Force on Legislative Framework on Agricultural Drought Mitigation for European Region and recommended to PCSO which was subsequently approved by IEC.

ERWG Minutes Item 8: Dissemination of activities of WG

16. The WG discussed this item under 1.1 as above.

ERWG Minutes Item 8.1: Website of the Group

17. PH Peter Lee presented the outcome of his detailed review of the existing ERWG website, including the contents of the ICID website references to the ERWG, and provided recommendations for revision of the ERWG website.

ERWG Minutes Item 8.2: Webinar / Web-based Seminar

18. AFEID offered to present a Webinar on findings of the studies presented in the conference held in October 2019 at Montpellier, France.

ERWG Minutes Item 9: Any other business

19. ERWG requests Central Office to help schedule and organize WebEx-meeting for the working group once every 3 months.



Annex [Appendix VII, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES RELEVANT TO EUROPEAN REGION

Goals	Activity	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal B: Be a catalyst for change in policies and practices							
Strategy B1 : Supporting Development of Appropriate Policies	1.7 Review of European/NC policy documents related to water resources that impact irrigation and drainage sector	Technical Report	Compilation of various policies related to water resources by Members in their country and start review few most important policy document	Draft of policy review report with recommendation	Finalisation and issue of policy review report Continuation of review of remaining policy document		
Goal C: Facilitate exchange of information, knowledge and technology							
Strategy C3 : Promoting Regional Cooperation	3.1 Organise workshops/ Seminar etc.	Proceedings of workshop/seminar	To decide on theme and sub-themes for the workshop/seminar to be organised as internal/international workshop in the WG meeting	Workshop/ Seminar	Workshop/ Seminar including publication of outcome/ recommendations from previous workshop	Workshop/ Seminar including publication of outcome/ recommendations from previous workshop	Workshop/ Seminar including publication of outcome/ recommendations from previous workshop
Goal F: Facilitate capacity development							
Strategy F1 : Enhancing Institutional Capacity Development in Member Countries	1.5 To launch from Europe an international e-Discussion on Water issues and/or Environmentally Sustainable Water Management from Europe for Young Professionals	Knowledge sharing and capacity development of YP	e-Discussion on Water issues and/or Environmentally Sustainable Water Management in Europe like as 'IYPeF'	e-Discussion on Water issues and/or Environmentally Sustainable Water Management in Europe like as 'IYPeF'	e-Discussion on Water issues and/or Environmentally Sustainable Water Management in Europe like as 'IYPeF' Organise a Side Event in WIF3	e-Discussion on Water issues and/or Environmentally Sustainable Water Management in Europe like as 'IYPeF'	e-Discussion on Water issues and/or Environmentally Sustainable Water Management in Europe like as 'IYPeF'

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)

**MINUTES OF THE 29TH MEETING OF THE
COMMITTEE ON CONGRESSES/CONFERENCES (C-CONGR)**

14 August 2018, 09:00-10:30 hours (Session-I)

14 August 2018, 11:00-12:30 hours (Session-II)

Saskatoon, Saskatchewan, Canada

Presented by the Chairman

Year of Establishment: 1990

Mandate: The mandate of the Committee is:

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

Members Present: (1) Mr. Bryan Ward, Chairman (Australia, 2017); (2) Dr. Warren Helgason, CANCID representative (3) VP Mr. Madhav Belbase, NENCID representative; (4) Mr. Anuj Kanwal, INCSW representative; (5) Mr. M.Z. Fatah, INACID representative; and (6) Dr. Vijay K. Labhsetwar, ICID Central Office.

Observers: (i) Ir. Momir Vranes (Australia); (ii) Ir. Adams SA (Indonesia); (iii) VPH Chaiwat Prechawit (Thailand); (iv) Ir. Surat Thanusin (Thailand); (v) Ir. Apirns Grikoolwong (Thailand); (vi) Ir. Edward Dean (Canada); (vii) Ir. Abdul Msi (Indonesia); (viii) Mr. Muhammad Arsyad (Indonesia); (ix) Ir. Arthon Suttigarn (Thailand); and (x) Ms. Christine Delphin (Australia).

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

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

1. Mr. Bryan Ward (Australia), Chairman of the C-CONGR presented a report on actions taken on the decisions made since the last meeting of the Committee at Mexico City (2017), Mexico. No interim meetings were held since Mexico meeting.

C-CONGR Minutes Item 2: Membership of the Committee

2. During the meeting, the Chairman observed that there was no representative from the Mexican National Committee of ICID (MXCID) in the meeting. Mr Madhav Belbase (Nepal) represented Mr Bashu Dev Lohanee from NENCID. Mr M. Z. Fatah (Indonesia) and Mr. Anuj Kanwal (India) represented INACID and INCSW, respectively.

C-CONGR Minutes Item 3: Overview of International Conference and 69th IEC meeting, 12-17 August 2018 at Saskatoon, Canada

3. Dr. Warren Helgason, the representative from Canadian Committee for Irrigation and Drainage (CANCID) reported on the International Conference and 69th IEC Meeting and commented that overall the event had met expectations and made the following recommendations for other committees:

- (a). He stressed the importance of engaging an 'Event Manager' for the event as early as possible Canada appointed their 'Event Manager' in 2016.
- (b). He informed that about 150 registrations had been received but they neither attended nor paid the fee. Therefore, assuming that registrations will all result in attendance may not happen.
- (c). There were a number of visa issues for some countries, e.g. Iran. Iran were to send a larger delegation but were unable to secure their visas.
- (d). A graph of time vs registrations was shown indicating that most registrations were made close to the actual date of the event/conference.
- (e). CANCID had introduced student awards to be presented at the farewell dinner.
- (f). He stressed that fundraising was critical as CANCID would not have been able to cover the organizing costs without sponsorships.

C-CONGR Agenda Item 3.1: Feedback from 23rd ICID Congress and 68th IEC, Mexico City, Mexico in October 2017

4. As no representative from Mexico attended the event, the Committee was unable to receive a report on the 23rd Congress. The Chairman indicated that feedback provided at the last meeting of C-CONGR in Mexico City from the Mexican National Committee was that the event had not been financially successful due to lower than expected registrations and also perhaps due to the 2017 earthquake.

C-CONGR Agenda Item 3.2: Feedback from 8th Asian Regional Conference, Kathmandu, Nepal in May 2018

5. VP Er. Madhav Belbase (Nepal) provided a verbal report on the 8th Asian Regional Conference. The event had been very successful with positive feedback. He informed that the Nepal Committee of ICID could successfully organize the 8th ARC exclusively due to funds made available by national and international sponsors. He indicated that the total income was about US\$ 205,000 and total cost was about US\$ 180,000. Sponsorship was nearly half of the total income.

C-CONGR Minutes Item 4: Preparations for the future events for the next 3 years**C-CONGR Minutes Item 4.1: 9th International Micro Irrigation Conference, 16-18 January 2019, Aurangabad, Maharashtra State, India**

6. Mr Anuj Kanwal, representative from the Indian National Committee of ICID (INCSW) briefed the Committee on the plans for the 9th International Micro-Irrigation Conference to be held in January 2019 at Aurangabad, Maharashtra, India. He indicated that they were now accepting abstract for the conference. He reiterated the importance of having sponsors to ensure the financial viability of the event. A number of interesting and informative technical/partner tours have been planned to attract more delegates.

C-CONGR Minutes Item 4.2: 70th IEC Meetings and 3rd World Irrigation Forum (WIF3), 1-7 September 2019 at Bali, Indonesia

7. Mr. M. Z. Fatah from INACID provided the Committee with an overview of the 70th IEC Meetings and 3rd World Irrigation Forum (WIF3) to be held in September 2019 at Bali, Indonesia. Planning was well underway and the themes and sub-themes had been agreed and published. INACID indicated that they were awaiting final approval from the PFC regarding the revised registration fees.

C-CONGR Minutes Item 4.3: 5th African Regional Conference on irrigation & Drainage, 16-19 March 2020, Rabat, Morocco

8. Representative from ANAFIDE updated the committee on the upcoming 5th African Regional Conference to be held in Rabat in March 2020. They tabled their First Announcement and have agreed on the themes and topics to be covered at the conference. They indicated that registration fees had been set at such a level that it would attract more delegates to attend the conference. They indicated that currently they are envisaging a budget deficit of approx. US \$ 25,000 but they were hopeful of closing the gap with other incomes such as from advertisements/sponsorships.

C-CONGR Minutes Item 4.4: 71st IEC Meetings and 24th ICID Congress, 22-28 September 2020, Sydney, Australia

9. Mr. Bryan Ward from IACID updated the Committee on the planning for the 2020 ICID Congress to be held in Sydney in September 2020. He informed that the First Announcement of the Sydney Congress has been published and was available at Saskatoon for member countries. He also informed that IACID had agreed to adopt subsidized pricing of 50% of registration fee for delegates from countries listed in the UN Least Developed Countries' List. He offered his support to the recommendation made by the representative from CANCID that an 'Event Manager' be appointed early and informed that IACID had appointed their 'Event Manager' in 2016, some four years ahead of the event.

C-CONGR Minutes Item 5: Letter of Agreement (LoA) for Hosting Congresses / WIFs / Regional Conferences

10. The Chair of C-CONGR provided a background on the Letter of Agreement (LoA) for hosting countries to apply to events from 2021 onwards.

11. He provided the Committee with a summary of the changes that had arisen after the circulation of the first draft of the LoA and noted that final approval was required at PCSO/IEC before adoption. He stressed that this agreement would not apply to events in Bali, Sydney and Rabat.

12. He indicated that it was a very sound practice to have a formal agreement between ICID and hosting countries to ensure that all of the requirements and expectations from all the parties were understood, respected and met.
13. He indicated that it was important that ICID had a very active events program and that member countries should be competing vigorously for future events. However, this was not the case and currently no events are formalized after 2020. After discussing this with several member countries, there was a view that the 35% share of registration fees payable to ICID was a disincentive to host forums and congresses. This view was supported by a number of countries present at the meeting, including Canada, Indonesia and Thailand.
14. The Chair indicated that the first responsibility of any hosting country was to ensure that any event was profitable and unless significant sponsorship was available, it would be difficult for any event to make a profit on registration fees alone after the payment of 35% share to ICID.
15. The Chair agreed to take a recommendation to PCSO that the registration fee for forums and congresses for events after 2020 be set at 25% (or some other amount as determined by the PCSO/PFC).
16. The other matter for discussion was the requirement to agree on registration fees set in US Dollars (USD). Many countries have widely fluctuating exchange rates with the USD and setting fees some years ahead in USD is a significant financial risk. The Chair indicated that for this reason Australia nearly chose not to bid for the 2020 event as the currency risk could be in the region of \$50,000 to \$100,000 on this event.
17. After discussion it was agreed that a proposal would be put to PCSO that fees for events would be determined in the local currency and made available in USD when registrations were to open. This would mitigate the risk for participating nations.
18. The impact of these two measures may make events more attractive for ICID members.

C-CONGR Minutes Item 6: Any other business

19. There was no other business and the meeting closed with vote of thanks to the Chair.



**MINUTES OF THE INFORMAL MEETING OF THE
WORKING GROUP ON IRRIGATION AND DRAINAGE IN THE STATES UNDER
SOCIO-ECONOMIC TRANSFORMATION (WG-IDSST)**

14 August 2018, 13.30-15.00 hours (Session I) and 15.30-17.00 hours (Session II)
Saskatoon, Saskatchewan, Canada

Presented by the Chairman

Members Present: (1) Dr. Katsuyuki Shimizu (Japan); (2) VP Irena G. Bondarik (Russia) represented Dr. Alexander Solovyev; (3) Dr. Keigo Noda (Japan); (4) Engr. Peter Yakube Manjuk (Nigeria); (5) Mr. Kimsanov Dilshod represented Mr. Baratov Rustam Okilovich (Tajikistan); (6) Dr. Vijay K Labhsetwar (India) represented Secretary General Ashwin Pandya.

Observers: (i) Engr Christy Omeno Oduh (Nigeria); (ii) Umechukwu Job Chuba (Nigeria); (iii) Omata Ali (Nigeria); (iv) Bahkrom Gaforzoda (Tajikistan).

VP Irena G. Bondarik (Russia) conducted the informal meeting as Chair VPH Peter Kovalenko (Ukraine) was not available at Saskatoon.

WG-IDSST Minutes Item 1: Introduction of the new Working Group by the Chair

1. Chair welcomed the members and briefed about the mandate of the new Working Group on Irrigation and Drainage in the States Under Socio-Economic Transformation (WG-IDSST) as follows:

New mandate of the WG:

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

2. The group reviewed the nominations of Mr. Rafaquat Ali (Pakistan), Dr. Hassan Abu Bashir (Sudan), VPH Dr. Mohamed Wahba (Egypt), Dr. Andrii Shatkovskiy (Ukraine) and accepted them as Provisional Members as they were not present at the Saskatoon meeting. Membership status is given in **Annex 3 (page 51)**.

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

3. WG discussed and reviewed the activities listed in the action plan of Road Map to ICID Vision 2030 (refer **Annex**). After discussion, the WG approved the next working plan as follows:

- Organization of training in cooperation with Tajikistan and Chinese National Committees in 2018
- Organization and holding of the event in Tajikistan dedicated to the theme of 3rd World Irrigation Forum to be held in 2019.

4. Mr. Dilshod Kimsanov, Secretary, Tajikistan National Committee (TAJCID) made an interesting presentation and expressed views of TAJCID on the establishment of new WG and proposed topics for discussions.

WG-IDSST Minutes Item 3: Discuss and develop work plan based on new mandate

5. At Saskatoon meeting, members discussed and deliberated on the development of work plan based on the new mandate and ICID Vision 2030 -

- During the next meetings of the WG-IDSST, the National Committees on Irrigation and Drainage should provide information about the activities carried out by them annually within the framework of the National Commissions/ Committees.
- Each year, during the next meetings of the WG-IDSST, the National Committees should provide information about the on ongoing scientific research and the most important smart technologies used (if any).

WG-IDSST Minutes Item 4: Scoping document and membership for the new Working Group

6. The group discussed the revised Scoping Document submitted by the Chair VPH Peter Kovalekno and accepted by the participants to establish a new WG on Irrigation and Drainage in States under Socio-Economic Transformation (WG-IDSST) with the revised mandate. The new working group be approved as 10 NCs support its activities by way of sponsoring its experts to participate in the WG's activities. The Scoping Document for WG-IDSST will be presented to PCSO for approval.

WG-IDSST Minutes Item 5: Any other business

The meeting ended with thanks to the Chair.



Annex [Appendix IX, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021	Milestone for Year 2022	Milestone for Year 2023
Goal C: Facilitate exchange of information, knowledge and technology							
C1. Strategy: Providing Knowledge-sharing Platform for AWM Professionals	1.4 Organize workshop for IDSST	Workshops	Organize workshop		Organize workshop		
C4. Strategy: Compile, Collate and Share Knowledge and Experiences	4.18 Maintain an updated database on irrigation and drainage in the countries of transition	Database	Compile database	First draft of database	Final draft of database		
Goal F: Facilitate capacity development							
F3. Strategy: Technical Training of Young Professionals from Member Countries	3.6 Organize training Workshop	Training Workshop	Organize Training Workshop		Organize Training Workshop		

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 3RD MEETING OF THE
ICID YOUNG PROFESSIONAL'S e-FORUM (IYPeF)**

14 August 2018, 9:00-10:30 hours (Session-I)
14 August 2018, 11:00-12:30 hours (Session-II)
Saskatoon, Saskatchewan, Canada

Year of Establishment: 2015

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

Members Present: (1) Ms. Kathleen Murray, Coordinator (Australia); (2) Ms. Eman Ragab Nofal (Egypt); (3) Ms. Adey N. Mersha (Ethiopia); (4) Mr. Amali Abraham Amali (Nigeria); (5) Ms. Sahar Norouzi (Iran); and (6) Mr. Hasan Farahani (Iran).

Observers: (1) President Felix Reinders (South Africa); (2) Dr. Sahdev Singh, Dir-KM, ICID Central Office (India); (3) Keigo Noda (Japan); (4) Michael Vaan Der Laan (South Africa); (5) Ms. Alysaa Deuna (Philippines); (6) Mortaza Yazdekhashti (Iran); (7) Tuta Takeno (Japan); (8) Mortaza Yazdekhashti (Iran); (9) Abdullahi Hassan (Somalia); (10) Mukhlis Bin Abidin (Malaysia); (11) Eunmi Hong (Korea); (12) Olle Maggblom (Finland); (13) Heidi Salo (Finland); (14) Wonho Nam (Korea); (15) Sanghee Park (Korea); (16) VP Irene Bondarik (Russia).

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

IYPeF Minutes Item 1: Action taken report by Coordinator

1. After the second IYPeF meeting held in Mexico in October 2017, the IYPeF Coordinators organized three virtual meetings in 2017-18. In the meetings, the coordinators finalised the e-Discussion and webinar topics and simultaneously assigned the role of lead coordinator for each e-Discussion topic. The activities undertaken by the group during the year were discussed and highlighted.
2. Based on the online election of IYPeF Joint Coordinators, the following two IYPeF members were elected as new Joint Coordinators for the year 2018-19: (i) Ms. Sahar Norouzi (Iran); and (ii) Mr. Amali Abraham Amali (Nigeria). Membership status is given in **Annex (page)**.
3. The group acknowledged and thanked the outgoing Co-ordinators, namely Rafat Nael Al-Intaki (Iraq) and Dr. Mika Turunen (Finland) for their valuable contributions which were much appreciated.

Accordingly, the updated IYPeF Coordinators are:

- (a) Ms. Kathleen Murray (Australia), Coordinator (2016)
- (b) Ms. Adey N. Mersha (Ethiopia), Joint Co-ordinator (2016)
- (c) Ms. Eman Ragab (Egypt), Joint Co-ordinator (2017)
- (d) Mr. M. Shoaib Saboory (Afghanistan), Joint Co-ordinator (2017)
- (e) Ms. Sahar Norouzi (Iran), Joint Co-ordinator (2018)
- (f) Mr. Amali Abraham Amali (Nigeria), Joint Co-ordinator (2018)

IYPeF Minutes Item 2: Report of the Virtual meetings of IYPeF

4. A brief report on the three virtual meetings organized during 2017-18 was presented by the Coordinator. The Coordinator informed that IYPeF coordinators and ICID Central Office worked collaboratively to identify topics, potential speakers and mentors for the E-Discussions and webinars. Besides, the activities undertaken by the group in 2017-18 were also discussed.
5. The Coordinator further reported that as customary five E-Discussions on identified topics were held during the period Jan-May 2018 and a 2-page summary of the outcome of the E-Discussions were produced by the lead coordinators.

IYPEF Minutes Item 3: Report of the E-Discussions

6. Chair informed that in 2018, IYPEF organized five planned E-Discussions to enable the YPs to contribute their views on various topics with a specific focus on the theme “Innovative and Sustainable Agri-water Management: Adapting to a Variable and Changing Climate” for the International Conference and 69th IEC Meetings held from 12–17 August 2018 in Saskatoon, Saskatchewan, Canada. Based on active participation and rich contribution to the discussions, Young Professionals were selected for scholarships to join the International Conference and 69th IEC meetings. The following YPs received the scholarships:

- (a) Ms. Kathleen Murray (Australia)
- (b) Ms. Adey N. Mersha (Ethiopia)
- (c) Ms. Eman Ragab (Egypt)
- (d) Ms. Sahar Norouzi (Iran)
- (e) Mr. Amali Abraham Amali (Nigeria)
- (f) Mr. Hassan Farahani (Iran)

7. The following Young Professionals viz. Mr. M. Shoaib Saboory (Afghanistan); Mr. Girmachew Addisu (Ethiopia); Ms. Snehpa Reddy (India) and Mr. Sekyi-Annan Ephraim (Ghana) did receive the scholarships but unfortunately could not attend the meeting.

8. The Coordinator informed that at present there are more than 350+ members in the IYPEF LinkedIn group. In addition, there was active participation from members on a wide range of topics and views were exchanged during the E-Discussions. The discussion topics and their lead coordinators were as follows:

- (a) The use of Groundwater for Sustainable Agriculture (Ms. Eman Ragab)
- (b) On-farm efficiency for small scale farming (Mr. Rafat Nael)
- (c) Policy Options for Enhancing Food Security (Ms. Adey Mersha)
- (d) Climate Change Impacts on Irrigation & Drainage (Mr. M. Shoaib Saboory)
- (e) Farmer led Innovations for water efficiency, shared global success stories (Ms. Kathleen)

9. A two-page summary on each e-Discussion topic was prepared and shared by the lead coordinator. The group reiterated that the discussions and webinars will continue to be on the LinkedIn platform.

IYPEF Minutes Item 3.1: The use of Groundwater for Sustainable Agriculture (Ms. Eman Ragab)

10. Chair informed that Ms. Eman coordinated the first e-Discussion on “The use of Groundwater for Sustainable Agriculture” from 15-31 January 2018. During the e-Discussion, Prof. Ahmed Khater (Egypt) acted as Mentor. It was informed that groundwater currently supplies water to approximately 41% of the world’s irrigated area and contributes to about 44% of irrigated food production worldwide. The growing importance of groundwater for agriculture can largely be explained by the convenience of groundwater to act as a reliable source for irrigation, providing water on demand, while being largely unaffected by seasonal surface hydrological variation. A brief report was presented.

IYPEF Minutes Item 3.2: IYPEF Agenda Item 3.2: On-farm efficiency for small scale farming (Mr. Rafat Nael)

11. The second e-Discussion on “On-farm efficiency for small scale farming” was coordinated by Mr. Rafat Nael from 15 Feb-2 March 2018. During the e-discussion, President Felix B. Reinders (South Africa) acted as Mentor. It was informed that concerns about scarcity of water have focused attention on irrigation, the largest water user sector worldwide, which is widely seen as a low-value, wasteful and “inefficient” user of water and in times of scarcity we all have a responsibility to use water wisely, efficiently and productively. A brief report was presented.

IYPEF Minutes Item 3.3: Policy Options for Enhancing Food Security (Ms. Adey Mersha)

12. The third e-Discussion on “Policy Options for Enhancing Food Security” was coordinated by ICID Central Office on behalf of Ms. Adey Mersha from 15-31 March 2018. During the e-discussion, VPH Hafied Gany, Chair, (WG-IOA) Indonesia acted as Mentor. It was informed that food security can be understood very differently in different settings or contexts. It is about being guaranteed the right to feed oneself, which requires not only that food is available – that the ratio of production to the population is sufficient – but also that it is accessible – i.e., that each household either has the means to produce or buy its own food. A brief report was presented.

IYPeF Minutes Item 3.4: Climate Change Impacts on Irrigation & Drainage (Mr. M. Shoaib Saboory)

13. The fourth e-Discussion on “Climate Change Impacts on Irrigation & Drainage” was coordinated by Mr. M. Shoaib Saboory from 15-30 April 2018. During the e-discussion, Dr. Thomas Mosier (USA) acted as Mentor. The e-Discussion discussed that there is a strong evidence that climate is already changing around the globe. These changes could impact agriculture and other systems—such as hydropower—and could have broad economic effects. In light of these possible consequences, projecting the impacts of climate change is a growing research topic. The main discussion surrounding climate change was based precisely on how much it will change and what can be done to adapt to impacts—or better, mitigate the causes. A brief report was presented.

IYPeF Minutes Item 3.5: Farmer led Innovations for water efficiency, shared global success stories (Mrs. Kathleen)

14. The fifth and last in the series, Ms. Kathleen Heuvel coordinated the e-Discussion on “Farmer led Innovations for water efficiency, shared global success stories” from 15-31 May 2018. Mr. Carl Walters, Vice-Chair, WG-ON-FARM (Australia) acted as Mento. It was informed that farmer-led innovations in water efficiency have the distinct advantage in using local knowledge to develop locally specific solutions. In the process, farmers exhibit entrepreneurial and risk-taking behavior and interact with a range of other actors. With such innovations taking place all over the world, there is much to be learned from sharing the global success stories of on-farm innovations. A brief report was presented.

IYPeF Minutes Item 4: IYPeF Agenda Item 4: Active participation in IYPeF Webinars 2018

15. The Coordinator provided a brief update on the organization of webinars in 2018:

- (a) Save Irrigation Water Using an Innovative Machine- Soil and Water Management for Rice Crop Cultivation (SWMR) by Dr. Mohamed El Hagarey (Egypt), a Young Professional WatSave Award winner (2016) on 3 April 2018.
- (b) Using System Rice Intensification to increase water productivity, in Nile Delta, Egypt by Dr. Arnulfo Gonzalvez and Ms. Sabah Khalifa from Egypt on 3 June 2018.

16. Mr. Paavan Kumar Reddy Gollapalli (India) and Mr. Najum Anjum (Afghanistan) had prepared webinar presentations on the topic ‘Open Source Geo-Spatial Tools and Mobile Device for Canal Network Digitization’ and ‘Water use efficiency and water productivity, Experience from Afghanistan’ respectively. However, this would be taken up in the next IYPeF webinar series post Canada Meetings.

IYPeF Minutes Item 5: Capacity development program for Asian Young Professionals in 2018, China

17. The group discussed that ICID in association with the Chinese National Committee (CNCID) and support from the Korean National Committee (KCID) organized a five-day YP training program for the young professionals on the theme “Performance Assessment of Irrigation Systems” from 9-13 April 2018 at China Hall of Science and Technology in Beijing, China. NCs were invited to nominate Young Professionals (YPs) from institutions involved in agriculture water management within Asian countries to attend the program. CNCID also organized a 2-day workshop entitled “Innovations of Irrigation Technology” on 14-15 April 2018 for the young professionals. It was apprised that these capacity development programs capacitate the young engineers in the area of irrigation and drainage sector and motivate them to work to share innovative ideas pertaining to irrigation and drainage, recent technologies and others from different parts of the world and also provides opportunity to network with the international delegates.

18. In addition, the Korean National Committee on Irrigation and Drainage (KCID) announced that in April 2019 it will host the International Young Professionals Training Program (YP-TP) in collaboration with CNCID, JNCID and ICID. The training program is focused on the theme “Climate Change-Resilient Irrigation Technology” aimed at finding ways to apply available advanced technologies for an improved irrigation system and various opportunities to have a wider adoption of these in different regions. The training will be followed by an expert consultation workshop.

IYPeF Minutes Item 6: Training workshop for Young Professionals (YPs) in August 2018, Canada

19. CANSID in collaboration with ICID Central Office will organize a full-day training workshop on 16 August 2018 for the young professionals on the topic “Irrigation in Western Canada - from the Mountains to the Plains.” The young professionals from around the world would get an opportunity to travel to the Canada Saskatchewan Irrigation Diversification Centre (CSIDC) to discuss lessons learned in Western Canada and their potential application in other regions in the world and to share insights from their region that could be applied to water management. All Young

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

IYPeF Minutes Item 7: Proposed e-Discussion and webinar topics for 2018-19

20. During the meeting, IYPeF discussed the suggested topics for the E-Discussions and webinars for 2018. It was proposed that the list of suggested topics will be reviewed and shortlisted by the IYPeF Coordinators during the next virtual meeting probably in October 2018. The IYPeF Coordinators will finalize the topics for e-Discussion and webinar to be held in 2018-19 together with the name of the “facilitating” coordinator in consultation with ICID Central Office.

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

- (a) Poor quality water use/re-use in irrigation.
- (b) Food security- Food Energy Nexus. A revisit of the discussion held in 2016 with more refined purpose.
- (c) Solar power in irrigation, an opportunity to link in with floating solar power project in South Africa being shared through live feed.
- (d) Flood management in agriculture.
- (e) Soil conditions (wellbeing) to ensure sustainable agriculture and coping with climate change.
- (f) Opportunities and challenges in Smart Farming. How we can benefit from open data resources and farm-collected data?
- (g) Cost effectiveness of field drainage (subsurface drainage or open channel drainage)

22. Some suggestions for Webinars were as follows:

- (a) Drainage- controlled drainage & sub surface irrigation
- (b) Open Source Geo-Spatial Tools and Mobile Device for Canal Network Digitization by Mr. Paavan Kumar Reddy Gollapalli (India)
- (c) Water use efficiency and water productivity, Experience from Afghanistan by Mr. Najum Anjum (Afghanistan)

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

IYPeF Minutes Item 8: Social media platform

24. The possibility of linking IYPeF with various social media platforms such as Facebook, Instagram, Twitter etc. was collaboratively explored by Dr. Mika Turunen (Finland) and Mr. Amali Abraham Amali (Nigeria). A comprehensive presentation regarding the same was given by Mr. Amali during the meeting for better promotion of the LinkedIn E-Discussions, increased involvement for YP’s in countries without access to LinkedIn and for an informal social and photo sharing opportunity via Instagram. The use of IYPeF Twitter handle for announcement of various ICID events, trainings and activities were explored that would provide round the clock updates and happenings of the latest IYPeF activities. A WhatsApp group has been created for regional and subgroup discussions and interaction among the YPs.

IYPeF Minutes Item 9: Any other Business

25. President Felix Reinders appreciated the contributions of YPs in various ICID activities and e-platforms. The YPs requested that they should have a greater say in the membership application in the e-group. Dr. Singh (Dir-KM) proposed that ICID should have a premium LinkedIn account as it provides a better feedback and visitors’ information as well as their organization information and job titles. The meeting ended with thanks to the Chair.



**MINUTES OF THE 2ND MEETING OF THE
WORKING GROUP ON WATER FOR BIO-FUEL AND FOOD (WG-BIO-FUEL)**

15 August 2018: 13:30:15:00 hours (Session-I)

15 August 2018: 15:30:17:00 hours (Session-II)

Saskatoon, Saskatchewan, Canada

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2016

Completion of the Mandate: 2022

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

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

Members Present: Mr. Mortaza Yazdekhashti (Iran).

Observers: (i) Ir. Toshihiko Kuno (Japan); (ii) Ms. Sahar Noruzi (Iran); and (iii) Ir. Mansour Mohammadi (Iran).

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

1. In absence of Chairman and Vice-Chairman Mr. Morteza Yazdekhashti (Iran), member of the WG was requested to conduct the meeting. However, the WG-BIO-FUEL meeting could not be held due to non-availability of members of the WG except the presence of few Observers (3 nos.).

2. The matter was discussed during PCTA meeting wherein it was recommended that the WG-BIO-FUEL may merged with WG-WATER & CROP which was approved by IEC in its meeting held on 17 August 2018 at Saskatoon, Canada vide resolution R-2/69.



**MINUTES OF THE 3RD MEETING OF THE
WORKING GROUP ON CLIMATE CHANGE AND
AGRICULTURAL WATER MANAGEMENT (WG-CLIMATE)**
14 August 2018, 13.30-15.00 hours (Session I) and 15.30-17.00 hours (Session II)
Saskatoon, Saskatchewan, Canada

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2015

Extended the completion of the Mandate: 2021

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

Members Present: (1) Dr. Tsugihiko Watanabe, Chair (Japan); (2) Dr. Ray Shyan Wu, Vice Chair (Chinese Taipei); (3) Dr. Nozar Ghahreman (Iran); (4) Prof. Dr. Choi, Jin-Yong (Korea, Rep. of); (5) Er. Harish K Varma represented Secretary General Er. Ashwin B. Pandya.

Observers: (1) VP Dr. Charlotte de Fraiture (The Netherlands); (2) VP Mr. Naoki Hayashida (Japan); (3) Mr. Patrick Cherneski (Canada); (4) Dr. Virginia Wittrock (Canada); (5) Dr. Aston Chipanshi (Canada); (6) Dr. Jih-Shun Liu (Chinese Taipei); (7) Dr. Chung-Feng Ding (Chinese Taipei); (8) Ms. Mei-Yuan Su (Chinese Taipei); (9) Dr. Eman Ragab (Egypt); (10) Mr. Mitsuo Ishijima (Japan); (11) Mr. Yasunori Saiki (Japan); (12) Dr. Jaepil Cho (Korea, Rep. of); (13) Dr. Seunghoon Lee (Korea, Rep. of); (14) Dr. Eunhee Choi (Korea, Rep. of); (15) Mr. Jongwon Do (Korea, Rep. of); (16) Dr. Zaw Latt (Myanmar); (17) Mr. Kenneth S. Sunmonu (Nigeria); (18) Prof. Sue Walker (South Africa); (19) Dr. Caren Jarmain (South Africa); (20) Mr. Maurice Roos (USA).

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

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

1. At the onset, the Chair Dr. Watanabe welcomed all the members and briefed on the latest status on the action point emerging from the minutes of the previous meeting of the WG at Mexico City in respect of - (i) updating of the terms of MTD related to the scope of the group, (ii) sharing information within the WG through internet, including the WebEx-Meeting of the WG organized on July 5, 2018, (iii) review of the new membership nominations, and (iv) organization of third meeting of the WG with the WG workshop on August 14, 2018 in Canada.

2. The WG reviewed the membership of the group which includes two new nominations viz. Dr. Jih-Shun, Liu (Chinese Taipei) and Prof. Sue Walker (South Africa), and same were accepted, with the participation of both the nominees. The member from Iraq (Mr. Hatem Hameed Hussein) had not contributed to the activities of the WG during last two years so as per ICID By-laws 3.5, it was recommended to discontinue the membership of Iraq with the recommendation to invite new nomination. Membership status is given in **Annex 3 (page 51)**.

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

3. The WG discussed the activities on climate change and agricultural water management for the WG-CLIMATE based on the report “A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030” and its “APPENDIX: Action Plan 2017-21 - Activities under Various Strategies”, and reviewed the planned activities, outputs/outcomes, and milestones for each year of the WG (refer **Annex**).

4. As per action plan, three publications, i.e. “Guideline for Water Management Practices under Changing Climate” (activity B6.1), position paper on “Smart Water Management for Mitigating Climate Change” (activity B6.2) and another position paper on “Adaptation to Climate Change” (activity B6.3) were planned. Based on the review of activities of action plan and the discussions, the group decided to combine these documents into one, which will include background, general recognition, case studies and some guides and perspectives. WG also agreed to deliberate on its frame or the table of contents during the coming year, in cooperation with other working groups of

ICID. The group adopted the following time line to finalise its table of contents with key statements ready for deliberations in the fourth meeting of WG to be held in Bali, Indonesia, in September 2019:

- | | | |
|----------------------------------------------------------------------------------------------------|---|------------------|
| (a) Draft table of contents, through WebEx meeting and e-mail communication | : | by November 2018 |
| (b) Proposal to other WGs for joint editing | : | by January 2019 |
| (c) Assignment of corresponding draft authors | : | by March 2019 |
| (d) Collection of relevant information including similar publication and international initiatives | : | by July 2019 |
| € Preparation of sub-chapters and sections with key words or key sentences | : | by August 2019 |

WG-CLIMATE Minutes Item 3: Exchange of information, knowledge & networking

WG-CLIMATE Minutes Item 3.1: Website of the WG

5. After the Mexico meeting, the website of the working group had been updated with the CVs of the members by Dr. Fuqiang Tian, Secretary of the WG, in charge of managing the website of the WG, with the help of the ICID Central Office. The WG Chair Dr. Watanabe reported the progress of the web updating and the dissemination of activities on behalf of Dr. Tian, and requested all members to submit CV, if not done so far. The chair also confirmed the necessity of uploading all presentation materials in the WG workshop after 2015.

WG-CLIMATE Minutes Item 3.2: Webinar/ Web based seminar

6. At Mexico meeting, the WG proposed a Webinar by Dr. Jaepil Cho of APEC Climate Center, Korea. Accordingly, the webinar was delivered by Dr. Jaepil on July 5, 2018 with the title "Seamless Climate Service and Downscaling for Climate Change Adaptation". The WG chair stressed need to plan Webinar by the WG and suggested to discuss and finalise topics and names of experts to deliver webinars through virtual meeting.

7. Dr. Jaepil Cho of APEC Climate Centre attended the WG meeting, and provided further information related to the topic of the webinar delivered and coming program in the future.

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

8. On behalf of the team leader for updation of MTD Dr. Waleed Hassan Abou El Hassan, the WG Chair briefed the progress of updating of MTD and the completion of the first draft on August 10, 2018, which includes 181 terms of 12 categories, while the previous version of the last year included 126 terms of 9 categories.

9. The WG will continue editing MTD taking care of relation with the category of climate change of the current ICID MTD and the glossaries or dictionaries edited by other organizations including IPCC and UNESCO, in cooperation and guidance of the TF-MTD.

WG-CLIMATE Minutes Item 5: Workshop on Agricultural Water Management under the Changing Climate, August 2018, Canada

10. In line with the activities for the Vison 2030, the WG organized an internal Workshop on the theme "Agricultural water management under the changing climate" during the meeting and invited following six presentations on (a) water management practices under climate change, (b) change in policies and practices under changing climate, and (c) development of integrated assessment of climate change impacts:

- (a). Dr. LIU Jih-Shun (Agricultural Engineering Research Center, Chinese-Taipei): Modeling smart irrigation system for mixed crop field water demand- a case study in central Taiwan
- (b). Dr. Nozar GHAHREMAN (University of Tehran, Iran): Application of RCP scenarios in assessment of climate change impact on extreme events: Experiences from Iran
- (c). Dr. Patrick CHERNESKI et al.(AAFC National Agro-climate Information Service, Regina, Saskatchewan, Canada): Present and Future Agro-climate Trends and Impacts in the Canadian Prairies
- (d). Dr. Jin-Yong CHOI (Seoul National University, Korea): Climate Change Responses for Agricultural Water Management and Institutional Activities in South Korea
- (e). Dr. Sue WALKER et al.(Institute for Soil, Climate and Water, Agricultural Research Council, Pretoria South Africa): Mobile Apps for Small-scale Farmers in South Africa
- (f). Dr. Tsugihiko WATANABE (Kyoto University, Japan): Integrated assessment of "Climate Change Impacts on Basin Agro-ecosystems": Introduction of a forthcoming book on the case in Turkey

11. Based on the outcomes of the past WG workshops and as the milestone of the activity for the Vision 2030, the WG proposed to organize a workshop during the 70th IEC in Bali, Indonesia in September 2019, with possible cooperation of other work bodies. The WG decided to propose and organize some sessions in the Third World Irrigation Forum to be held in Bali, Indonesia in September 2019.

13. The WG chair reported that one joint session of ICID, PAWEES and INWEPF will be organized in “PAWEES & INWEPF International Conference Nara” from 20-22 November in 2018 at the Nara, Japan. WG suggested that this collaboration may be organized at the ICID level and not at the work body level.

WG-CLIMATE Minutes Item 6: Any other business

14. The WG chair introduced the international conference “THA 2019 International Conference on Water Management and Climate Change towards Asia's Water-Energy-Food NEXUS and SDGs” in Bangkok, Thailand, January 23-25, 2019. Since its objects and topics are deeply related to the activities of the WG, the chair suggested and encouraged all members to participate and exchange the information.



Annex 1 [Appendix XII, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-CLIMATE

Goal/ Strategies	Activities	Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal B: Be a catalyst for change in policies and practices							
B2. Strategy: Promoting Risk Management Approaches							
B3. Strategy: Integrated irrigation and drainage management	3.2 Organize introduction of the cases to be applied to other regions	Compilation of Cases	2 Case Studies in humid region (introduction in WG Meeting)	2 Case Studies in arid/semi- arid region (introduction in WG Meeting)	2 Case Studies on unique examples (introduction in WG Meeting)	Extra Case Studies and comparison of the cases (introduction in WG Meeting)	Integration to conclude in general
B6. Strategy: Helping development of climate change adaptation strategy	6.1 Develop Guideline for Water Management Practices under Changing Climate	Guidelines	General policy and table of contents are decided	First draft of the core parts	Release the First Draft Guidelines in WIF3		Release the Final Draft Guidelines
	6.2 Prepare Position Paper on Smart Water Management for Mitigating Climate Change	Position Paper	2nd Workshop on Post Paris 2015	3rd Workshop on Post Paris 2015	Discuss in a Side Event and Release the Draft in WIF3		
	6.3 Develop position paper on adaptation to climate change	Position Paper	Communicatio n with International Organizations	Communica tion with International Organizatio ns	Release the First Draft Paper in WIF3		Release the Final Draft
Goal D: Enable cross disciplinary and inter-sectoral engagement							
D2. Strategy: Develop technical documents in non-technical language	2.1 Integrated Assessment of Climate Change Impacts	Brief Guidelines with Compilation of Case Studies	2 Case Studies with focus on technical background and uncertainty (introduction in WG Meeting)	2 Case Studies with previous year's focus plus economic and social aspects (introduction in WG Meeting)	2 Case Studies with previous year's focus plus financial and institutional arrangement (introduction in WG Meeting) and Introduction of state-of- the- art methodologie s and their outcomes in WIF3	2 Case Studies with previous year's focus plus interest groups (introduction in WG Meeting)	Release the Brochure

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 3RD MEETING OF THE
WORKING GROUP ON ENVIRONMENT (WG-ENV)**

14 August 2018, 13.30-15.00 hours (Session I) and 15.30-17.00 hours (Session II)
Saskatoon, Saskatchewan, Canada

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2015

Completion of the Mandate: 2021

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

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

Members Present: (1) VP Prof. (Ms) Charlotte de Fraiture, Chair (Netherlands); (2) Prof. N. Hatcho, Vice Chairman (Japan); (3) Dr (Ms) Seija Virtanen (Finland); (4) Dr. Yury Anatolyevich Mozhaiskii (Russia)

Nominated members: (1) Dr. Ming-Kai Hsieh (Chinese Taipei); (2) Prof. (Ms.) Eunmi Hong (Korea, Rep. of); (3) Dr. Michael van der Laan (South Africa).

Observers: (1) VP Naoki Hayashida (Japan); (2) Dr. Sahdev Singh (India); (3) Mr. Ahmed M. Aziz (Iraq); (4) Shinji Fukuda (Japan); (5) Yuta Takeno (Japan).

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

1. The Chair Prof. de Fraiture welcomed the members, new nominated members and all the observers. Chair presented the report on the actions taken on the decisions and proposals of the working group made at its last meeting held at Mexico in October 2017.

2. Dr. Michael van der Laan, Prof. (Ms.) Eunmi Hong and Dr. Ming-Kai Hsieh were nominated by the South African National Committee (SANCID), the Korean National Committee (KCID) and Chinese Taipei Committee (CTCID) respectively, for the membership of the WG. The group reviewed the nominations and accepted their membership of the working group as they were present in the meeting.

WG-ENV Minutes Item 2: Road Map to ICID Vision 2030 – Status of future activities of the group

3. The group reviewed the Action Plan for WG-ENV and updated the same keeping in view the mandate and availability of resources for achieving various activities. The milestones were decided and updated by the WG in the action plan (refer **Annex**).

WG-ENV Minutes Item 3: Publications of the working group

4. WG noted that the WG document titled “*Assessing the environmental impacts and the sustainability of irrigation and drainage systems: the potential contribution of Life Cycle Analysis*” by Dr. Sylvain Perret (France) was now available at http://www.icid.org/wg-env_rep_may2018.pdf on the website. It was decided by the WG to request a link to access the DROPBOX of the WG as well.

5. It was decided by WG to collect the case studies concerning the “*Positive Ecosystem Services from Irrigation and Drainage Systems*” which may be further developed into ICID technical paper and/or uploaded on a WG website.

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

6. The group noted that the list of the updated terms to the MTD were provided by Prof. Hatcho to the Central Office and they would be sent to the WG for reviewing in future.

WG-ENV Minutes Item 5: Dissemination - Sharing documents on website**WG-ENV Minutes Item 5.1: Website of the group**

7. The group noted that the website of the working group <http://wg-env.icidonline.org/> was updated with new membership list, agenda, minutes, events, etc. Chair encouraged members to provide interesting articles/ papers/ presentations/ documents related to the activities of the group for uploading on the website or the 'DROPBOX'. The presentations given in the meeting of the WG were requested to be uploaded on DROPBOX/ on the website of WG.

WG-ENV Minutes Item 5.2: Webinar/ Web based seminar

8. It was decided by WG to organize a virtual WebEx meeting concerning the case studies on the "*Positive Ecosystem Services from Irrigation and Drainage Systems*".

WG-ENV Minutes Item 6: Workshop organized by the working group

9. Workshop could not be organized by the WG due to short time frame before Canada meeting and large number of parallel sessions in Canada. Chair proposed to organize a workshop at the 70th IEC meeting in September 2019 in Bali, Indonesia. The proposal was seconded and the workshop will be related to "*Poor quality waters*". It was also proposed to have presentations related to PAWEES Conference to be held in Nara City in Japan, November 2018 (see the Item 7). Chair will search possibilities to organize the workshop jointly with other working groups and with ICID central office and the Indonesian organizers.

WG-ENV Minutes Item 7: Input to International Conference on "Promoting sustainable paddy farming to achieve the SDGs", 20-22 November 2018, Nara City, Japan

10. The group noted that the International Conference on "*Promoting sustainable paddy farming to achieve the SDGs*" will be held from 20-22 November 2018 at Nara City, Japan. Prof. Hatcho is one of the members involved in the Working Committee of the Conference and he distributed the 2nd Announcement of the Conference during the meeting.

WG-ENV Minutes Item 8: Any other business

11. Vice Chair Prof. Hatcho expressed his desire to retire as Vice Chair. Dr. Michael van der Laan from South Africa was elected Vice Chair of the WG. Dr. Seija Virtanen from Finland was elected as Secretary of the WG.

12. Chair thanked warmly those who gave presentations in the meeting and all the participants for their time in attending the meeting.



Annex [Appendix XIII, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

Goals/ Strategies	Activities	Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal A: Enable higher crop productivity with less water and energy							
A6. Strategy: Improving performance of irrigation systems	6.2 Investigating and documenting negative environmental impacts of irrigation systems	Guidelines/Case Studies					
	6.6 Improving communication among country members between annual ICID meetings	Online					

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 2ND MEETING OF THE
WORKING GROUP ON MANAGING WATER SCARCITY UNDER
CONFLICT DEMANDS (WG-MWSCD)**

15 August 2018, 13.30-15.00 hours (Session-I), and 15.30-17.00 hours (Session-II)
Saskatoon, Saskatchewan, Canada

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2016

Completion of the Mandate: 2022

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

Members Present: (1) VPH Franklin E. Dimick (USA), Chairman; (2) Mr. V.C. Ballard (Australia), Vice-Chairman; (3) VPH Dr. Ragab Ragab (UK); (4) Dr. Takanori Nagano (Japan) represented Dr. Keijo Noda; (5) Dr. Jaepil Cho (Korea); and (6) Secretary General represented Dr. Sahdev Singh, Director (KM), ICID Central Office.

Observers: (i) Mr. Amali Abraham Amali (Nigeria); (ii) Dr. Jan Ming-Young (Chinese Taipei); (iii) Prof. Dr. Hesham Mostafa Mohammed Ali (Egypt); (iv) Ir. Zohrabi Narges (Iran); (v) Prof. Dr. Charlotte de Fraiture (The Netherlands); (vi) Ir. Sahar Norouzi (Iran); (vii) Ms. Mei-Yuan Su (Taiwan); and (viii) Ir. Tsung Chiang Liu (Taiwan).

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

WG-MWSCD Minutes Item 1: Action Take Report by Chair

1. VPH Franklin E. Dimick (USA) Chairman of the WG welcomed all the members and presented a report on the actions taken on the decisions held at its last meeting at Mexico City, Mexico in October 2017. WG Chair requested the members to present short papers from their countries on managing water scarcity under conflicting demands. In this regard, four country papers were received from Australia, Japan, Turkey and USA during the meeting. Mr. Clarke Ballard (Australia) summarized those papers into a presentation made at the ICID Conference in Saskatoon, Canada.

2. WG Chair informed that the planned WebEx meeting of the WG could not be held in May/ June 2018 due to low participation.

3. Dr. Chang-Chi Cheng (Chinese Taipei) reluctantly withdrew his membership of the WG due to illness. The Chair and members of the WG expressed their deepest appreciation for his kind support and significant input to the efforts of the WG.

4. The Group reviewed the membership of the WG and accepted three new nominations of Mr. Amali Abraham Amali (Nigeria), and Dr. Jan Ming-Young (Chinese Taipei) as members and Prof. Dr. Hesham Mostafa Mohammed Ali (Egypt) as provisional member of the WG as he was not present. Dr. Takanori Nagano (Japan) had indicated his inability to continue as Secretary of the WG but continue to be member of the WG. Dr. Jaepil Cho from South Korea was selected as WG Secretary. The Membership status is given in **Annex 3 (page 51)**.

WG-MWSCD Minutes Item 2: Road Map to ICID Vision 2030: Status of activities on Managing Water Scarcity under Conflict Demands

5. WG discussed and reviewed the activities of the WG based on the revised Road Map to ICID Vision 2030 by removing all references under Strategy B4 since they refer to 'Drought' while the WG is not dealing with droughts but rather resolving conflicts due to permanent water scarcity (updated action plan is at **Annex**). Updated milestones schedule is as follows:

- 2019 – Evaluate National/International level country papers
- 2020 – Evaluate National papers on area /basin level country papers

- 2020 – Conduct an International workshop in Australia for the WG (include appropriate data from workshop in final technical paper)
- 2021 – Evaluate National papers on local level country papers
- 2022 – Complete final review paper on Final review document

6. WG Chair informed that the International workshop planned by the WG at Canada was cancelled at the request of the ICID CO and the CANCID Coordinating Committee in order to combine WG efforts with the Conference Theme-1 activities.

WG-MWSCD Minutes Item 3: Technical Report of the WG-DROUGHT: Publications

7. WG Chair informed that the Technical Report of the erstwhile WG-DROUGHT titled 'Water Management in Water Stressed Regions' has been completed and is now available on the ICID website: http://www.icid.org/report_water_stressed_regions.pdf. The Chair thanked those WG members who diligently worked to achieve the completion of the document.

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

8. Dr. Takanori Nagao (Japan), representing WG on the TF-MTD briefed members on the process of updation of MTD during the WG meeting. WG Chair requested members to review the MTD term related to the mandate of the WG, including pictures, links and videos related to respective term (s).

WG-MWSCD Minutes Item 5: Exchange of Information, Knowledge & Networking

WG-MWSCD Minutes Item 5.1: Website of the WG

9. WG members noted and appreciated efforts of Dr. Jaepil Cho to update the WG website to reflect the name of the members of WG-MWSCD. WG members were urged to submit articles, papers, etc. to Dr. Jaepil Cho for inclusion on the website.

WG-MWSCD Minutes Item 5.2: Webinar / Web-based Seminar

10. There was no plan for a Webinar / Web-based Seminar by the WG at present.

WG-MWSCD Minutes Item 6: Any other business



Annex [Appendix XIV, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-MWSCD

	Activity	Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021	Milestone for Year 2022
Goal B: Be a catalyst for change in policies and practices								
Strategy B2 : Promoting Risk Management	Encourage entities to reduce risks of water scarcity by planning for competing demands Look for existing indices related to water scarcity	Increased water reliability; Increased understanding of consequences of water scarcity / Links to articles & papers related to water scarcity					Final review article summarizing country case studies related to addressing water scarcity	
Strategy B4 : Encouraging Development of Drought Management Policies	4.1 Advocating role of agricultural drainage under drought	Advocacy material			Evaluate National /international level country papers	Evaluate National papers on area/ basin level country papers	Evaluate National papers on local level country papers	
	4.2 Manging with limited water under drought	Technical report/ Guidelines						
	4.3 Develop guidelines on drought risk management strategies	Guidelines		Finalisation of the draft guidelines	Release the finalised guidelines		Updation of guidelines	Complete final review paper on Final review document
Strategy B7: Advocate for Maintaining Balance between Development and Environment	7.1 Compile best practices in irrigation and drainage in the world on managing water caused by competing demands	Report	First meeting of WG	Host workshop at ICID Canada	Prepare summary report on ICID Canada workshop	Final review article summarizing country case studies related to addressing water scarcity/ Conduct an international workshop in Australia for the WG (include appropriate data from workshop in final technical paper)		



**MINUTES OF THE 1ST MEETING OF THE
WORKING GROUP ON SUSTAINABLE DEVELOPMENT OF TIDAL AREAS (WG-SDTA)**

15 August 2018: 09:00-10:30 hours (Session-I)
15 August 2018: 11:00-12:30 hours (Session-II)
Saskatoon, Saskatchewan, Canada
Strategy Theme: Basin
Presented by the Chairman

Year of Establishment: 2017

Extended the completion of the Mandate: 2023

New Mandate of the WG:

- (a). To understand the existing and potential challenges and opportunities of tidal areas for now and the future by figuring out underlying issues;
- (b). To raise awareness of the increasing risk on tidal areas due to global climate change and stimulate interdisciplinary discussions on impacts, mitigation, and adaptation
- (c). To enhance survey, design techniques, and monitoring and management programs for the irrigation and drainage facilities, and apply to collect information about the tidal area environment around the world;
- (d). To identify sustainable development and management options in tidal areas, and find a balance between the conservation and development of tidal areas with acknowledgement of ecosystem services;
- (e). To join the international dialogues and organize international conferences and short courses to promote interdisciplinary and participatory land and water planning and management in tidal areas;
- (f). To collaborate with other related working groups actively, and to exchange relevant experiences amongst NCs and support for developing, and least developed countries.

Members Present: (1) Dr. Ruey-Chy Kao, Chairman (Chinese Taipei); (2) Mr. Henk P. Ritzema, Vice-Chairman (The Netherlands); (3) Dr. (Ms.) Hsiao-Weng (Chinese Taipei) represented by Ir. Chang Ching Ju; (4) Dr. Jeongryeol Jang (Korea); (5) Ir. Hj. Nor Hisham Bin Mohd Ghazali (Malaysia); (6) Mr. Anuj Kanwal (India); and (7) Dr. Vijay K. Labhsetwar represented Er. A.B. Pandya, Secretary General, ICID Central Office.

Observers: (i) PH Bart Schultz (The Netherlands); (ii) Ir. Ming-Kai Hsieh (Taiwan); (iii) Ir. Chou Chin (Taiwan); (iv) VPH Hafied Gany (Indonesia); (v) Ir. Arthon Suttigarn (Thailand); (vi) Ir. Surat Thanusin (Thailand); (vii) Ir. Cheng-Feng Ding (Taiwan); (viii) VPH Chaiwat Prechawit (Thailand); (ix) Ir. M. Arsyadi (Indonesia); (x) Mr. Iwan Nursyirwan (Indonesia); (xi) VP Prof. Dr. Charlotte de Fraiture (The Netherlands); (xii) Miss. Saowanit Prabnakorn (The Netherlands); (xiii) Ir. Em. Myung-Chul (South Africa); (xiv) Ir. Su, Mei-Yuan (Taiwan); (xv) Ir. Apiruks Srikoolwong (Thailand); and (xvi) Ir. Chang, Ching-Ju (Taiwan).

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

WG-SDTA Minutes Item 1: Introduction of new Working Group

1. The WG Chair Dr. Ruey-Chy Kao (Chinese Taipei) welcomed all the members and briefed them on the new mandate of the WG (as above) and various activities of the Group.
2. The Chair of the WG informed that the new nominations were accepted/provisionally admitted as below:
 - (a) Eng. Elaraby Mohamed Gomaa Elkashawy and Prof. Dr. Hossam Refaat from Egypt were provisionally accepted as they were not available at the meeting.
 - (b) Dr. Ikuo Yoshinaga (Japan) was accepted as a WG member and he will undertake the MTD terms related to scope and mandate of the WG.
 - (c) Dr. Arthon Suttigarn (THACID) introduced Dr. Surat Thanusin (Director, Bureau of Project Management, RID, Thailand) during the meeting. Dr. Surat expressed his desire in joining the WG-SDTA. The WG welcomed Dr. Surat and the Chair accepted his membership for the WG subject to receiving his formal nomination from the NC along with a brief CV.
 - (d) Dr. Vijay K. Labhsetwar (India) was nominated by INCSW and is accepted as a WG member.
 - (e) The Chair proposed Ir. Hj. Nor Hisham Bin Mohd Ghazali from Malaysia to be the Secretary of WG-SDTA with the concurrence of the members present. Ir Ghazali accepted to be the new Secretary of the WG.

WG-SDTA Minutes Item 1.1: A brief report of Online/WebEx Meeting of the Group, 29 January 2018

3. The Chair briefly informed the members on discussions held during the WebEx meeting and reviewed the activities of the group such as Side Event on 'Integrated Development of Tidal Areas' (2019); International Workshop (2019); and Short Course / Training Workshop on SDTA (2019) .

4. As the Chair promised during the WebEx meeting, he shared the experiences from Taiwan again during the meeting under Goal B: Be a catalyst for change in policies and practices (1.1 Promoting sophisticated water-saving irrigation development with IOT and water-saving irrigation model techniques of Action Plan 2030).

5. The Chair further presented the contents of the forward-looking Infrastructure development program on 'Water environments in Taiwan': Application Industry - concept to be applied in the Intelligent Operation and Management techniques of multi-purpose reservoirs, Dynamic groundwater operation technology, Construction/Test of Intelligent Flood Protection Net, Sophisticated Water-Saving Irrigation Management Technology, and Intelligent Management Mode and Equipment R&D.

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

6. The Chairman presented the finalised the Action Plan 2030 (*Road Map to ICID Vision 2030*) of the WG-SDTA based on the new mandate by updating the activities on Sustainable Development of Tidal Areas as given in **Annex 1**. The Action Plan 2030 includes activities such as workshop proceedings, Side Events/Short Course/Training, e-Discussion on Sustainable Development of Tidal Areas and much more.

WG-SDTA Minutes Item 3: Publications of the Working Group: A Special Issue of ICID Journal on SDTA

7. The Chair of the WG thanked the Guest Editors Dr. Henk P. Ritzen (The Netherlands), Dr. Hsiao-Weng Wang (Chinese Taipei) and the reviewers for their hard work as well as Japanese, Korean and Chinese Taipei Committees for their support. *The Special Issue of ICID Journal titled "Sustainable Development of Tidal Areas: Climate Change and Environmental Impacts" (Volume 67, Issue 3)* has been published in July 2018. The Chair also thanked Dr. Vijay K Labhsetwar of ICID Central Office and Dr. Hsiao-Weng Wang for their continuous and untiring support towards bringing out this Special Issue.

WG-SDTA Minutes Item 4: Upcoming WG Events

8. The Chair reminded the members of the upcoming WG Events as below:

WG-SDTA Minutes Item 4.1: Side Event on 'Integrated Development of Tidal Areas' (2019)

9. The WG will organize a Side Event on 'Integrated Development of Tidal Areas' during the 3rd World Irrigation Forum (WIF3) at Bali, Indonesia in 2019. The 'Concept Note' on 'Global Challenges of land Subsidence in Tidal Areas and the Integrated Solutions' prepared by Dr. Hsiao-Wen Wang and as given in **Annex 2** was discussed during the meeting and adopted for the Side Event.

WG-SDTA Minutes Item 4.2: International Workshop (2019)

10. The WG also proposes to organize an International Workshop during the 3rd World Irrigation Forum (WIF3) at Bali, Indonesia in 2019. The 'Concept Note' on 'Integrated Development of Tidal Areas' prepared by Dr. Hsiao-Wen Wang and as given in **Annex 3** was discussed during the meeting and adopted for the workshop.

WG-SDTA Minutes Item 4.3: Short Course / Training Workshop on SDTA (2019)

11. The WG agreed to arrange a Short Course to be held in December 2019 in Taiwan after the WIF3. The Chair proposed the theme of the course to be "*Tidal Prediction & Typhoon Wave Model*".

WG-SDTA Minutes Item 4.4: Web-based seminars and e-Discussions (2019)

12. The Chair proposed 'Discussion on Drainage Capacity and Flood Disaster in Tidal Areas under a Variable and Changing Climate' to be the topic for web-based seminar and 'Integration of Drainage tail, Land subsidence, Ground water and Management in Tidal Areas' to be the topic for the e-Discussion. In cooperation with members, the Chair proposes them to be held in January and April 2019, respectively.

13. To facilitate planning above activities, the WG Chair will establish a team of members to firm up the programs for the activities under **Item 4** by October 2018 and organize a WebEx meeting of the WG in December 2018 to firm up the same and report to the ICID Central Office for inclusion in the WIF3 program. The Chair requested all the WG members to actively participate in these activities.

WG-SDTA Minutes Item 5: Ground Water and the Land Subsidence on the Coastal Areas

14. After discussion with the WG members, issues related with '*Ground Water and the Land Subsidence on the Coastal Area*' have been included in the Road Map to ICID Vision 2020. Issues such as integration of upstream drainage and drainage tail, flood, ground water and land subsidence problems on coastal areas, analyse the potential problems and set up ways for prevention, and information dissemination among members' countries etc. may be studied under this activity.

WG-SDTA Minutes Item 6: Dissemination of activities of WG

15. All the WG members agreed to provide at least one-page of materials/articles/papers/presentations/reports to Tainan Hydraulic Laboratory (THL, NCKU) at <SDTA-THL@thl.ncku.edu.tw> for review and uploading on the website.

WG-SDTA Minutes Item 7: Updating Multilingual Technical Dictionary (MTD)

16. Dr. Ikuo Yoshinaga (Japan), nominated by the JNC-ICID, agreed to continue the work of Prof. Hajime Tanji who could not provide his services due to his illness.

WG-SDTA Minutes Item 8: Cooperation between Institutions from Taiwan and Korea

17. The Chairman reported that RRI of KRC and THL of NCKU organised a Joint Seminar on 21-22 March 2018 at THL, NCKU which focused on issues of coastal erosion, tidal areas, renewable energy, and water resources disaster prevention.

WG-SDTA Minutes Item 9: Any other business

18. Dr. Jeongryeol Jang (Korea), member of the WG, announced that the Rural Research Institute (RRI) will host the International Conference together with the Opening Ceremony of HIGH-Center on 22nd November 2018 at Ansan City, Korea.



Annex 1 [Appendix XV, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-SDTA

	Activity	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021	Milestone for Year 2022
Goal B: Be a catalyst for change in policies and practices								
Strategy B1 : Supporting Development of Appropriate Policies	1.1 Promoting Sophisticated water-saving irrigation development with IOT and water-saving irrigation model techniques exchanges	Technical report, workshop proceedings and water industry web site	Preparing: Promoting demonstrative plan	Site tests demonstration: Hardware construction and software tests	Site tests demonstration: Hardware, software and system control integrating process	Site tests plan: Workshop observation	Examination Plan results & improvement	Examination Plan results & improvement
	1.2 Promoting up-to-date water-saving experience exchange	As above	As above	As above	As above	As above	As above	As above
	1.10 Sustainable drainage management experience exchange	Internet of Things Water industry workshop						
Goal C: Facilitate exchange of information, knowledge and technology								
Strategy C4 : Compile, Collate and Share Knowledge and Experiences	4.26 Special Issue of ICID Journal on SDTA	Special issue of IRD	Announcement of special issue, inviting authors etc.	Setup Review Committee for selected papers based on the workshops	Submission of final drafts		Publishing Special Issue of IRD	
Strategy C5 : Dissemination of Data, Information, Tools, Knowledge and Know How	5.8 Develop and maintain the ICID web site as a knowledge hub	On-line						
Goal E: Encourage research and support development of tools to extend innovation into field practices								
Strategy E3 : Develop and Promoting Tools for AWM	3.2 The application for output of development tools from academic institutions			Prepare tidal prediction and typhoon wave model				
Goal F: Facilitate capacity development								
Strategy F3: Technical Training of Young Professionals from Member Countries	3.7 worksh/Training Workshop on Sustainable Development of Tidal Areas	Technical transfer and internet information short course /training workshop	Scope, theme and announcement		Short Course/Training Workshop on SDTA		Short Course / Training Workshop on SDTA	Short Course / Training Workshop on SDTA
	3.8 To launch e-Discussion on Sustainable Development	E-discussion	E-discussion on Sustainable Development of Tidal Areas		e-Discussion on SDTA		e-Discussion on SDTA	

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)

Annex 2 [Appendix XV, Item 4.1]**SIDE EVENT ON ‘INTEGRATED DEVELOPMENT OF TIDAL AREAS’ (2019)****Theme: ‘Global Challenges of Land Subsidence in Tidal Areas and the Integrated Solutions’**

Land subsidence is one of critical problems and challenges in tidal areas. Subsidence could damage buildings, aqueducts, well casings, bridges and highways. Subtle changes in land gradient can adversely impact sewer lines and storm drainage. As the land sinks, flooding problems are aggravated. Subsidence started to become a widespread problem when pumping technologies had developed enough to increase production, but before surface water systems were developed to meet growing water demand. Long-term overdraft or excessive pumping of a groundwater aquifer is one main cause among the others. And drought conditions had caused groundwater pumping to increase and groundwater levels to be lower, leading to more concerns about subsidence.

The side event will highlight the underlying causes and facts of land subsidence problems and issues around the world. The importance of using sound science, monitoring, and technology to inform management strategies and enhance environmental values to society will be emphasized. This event will also be a prime opportunity to engage the professionals with panels and discussions that will focus on integrated solutions to the current and future challenges.



Annex 3 [Appendix XV, Item 4.2]**INTERNATIONAL WORKSHOP ON
‘INTEGRATING RESEARCH, PRACTICE, AND POLICY – AN EXCHANGE OF
EXPERTISE FROM BASIN PERSPECTIVE’**

Tidal areas, with abundant ecosystems, are important interactive water-land environments. However, tidal areas are threatened by rising sea levels, extreme flood and drought events, land subsidence and so on. There is a pressing need to accelerate efforts for resilience and adaptation to the different challenges. As collaboration is essential to furthering the understanding of conservation, management, and sustainable use of tidal areas throughout the world, dialogues and partnerships among researchers, practitioners, managers, and policy-makers, with the overall goal of improving sustainable management of tidal areas are encouraged.



**MINUTES OF THE INFORMAL MEETING OF THE
WORKING GROUP ON ADAPTIVE FLOOD MANAGEMENT (WG-AFM)**

15 August 2018, 09.00-10.30 hours (Session-I)
15 August 2018, 11.00-12.30 hours (Session-II)
Saskatoon, Saskatchewan, Canada

Strategy Theme: Basin

Presented by the Chairman

Mandate: The new mandate can be seen under Item 1.

Members Present: (1) Mr. Maurice Roos (USA); (2) Mr. Olli-Matti Verta (Finland) represented Mr. Olle Haggblom; (3) Mr. R.K. Agarwal (India); and (4) Secretary General represented Er. Harish K. Varma, Executive Director, ICID Central Office.

Observers: (i) Dr. Ikuo Yoshinaga (Japan); (ii) Engr. Syed Mahmood-UI-Hassan (Pakistan) represented Mr. Waseem Nazir; (iii) Ms. Sahar Norouzi (Iran); (iv) Mr. Ahmad Bin Dakur (Malaysia); (v) Ir. Mamoru Wateanabe (Japan); (vi) Ir. Abdullahi Hassan Hussein (Somalia); (vii) Ir. Heidi Salo (Finland); and (viii) Ir. Arif Fajar Alfalaoy (Indonesia).

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

1. In the absence of Chair Dr. Kamran Emami (Iran), Mr. Maurice Roos (USA) conducted the meeting as Chair along with Er. Harish Kumar Varma, Executive Director, ICID. Er. Varma presented the background and the finalized 'Scoping Document' for a new 'Working Group on Adaptive Flood Management (WG-AFM) with the revised mandate of the group as follows:

New mandate of the WG:

- (a) To motivate ICID National Committees in various countries to set up their National Working Groups,
- (b) To provide guidance to compile, publish, update and/or translate documents on adaptive flood management;
- (c) To promote inter-disciplinary exchange of information, knowledge and experience, as well as networking on the topic for proper understanding of the technological developments in the subject;
- (d) To organize seminars at ICID Congresses and meeting to enhance deeper understanding of adaptation to floods and coping with floods including community participation with focus on impact of floods on agriculture water management;
- (e) To prepare a paper on "Adaptive Flood Management" for publication in Irrigation and Drainage (IRD);
- (f) To finalize a book on "Adaptive Flood Management".

2. The WG recommended PCTA and IEC approval for the revised mandate of the WG. On the recommendation of PCTA, the Council approved to setting up of a Working Group on Adaptive Flood Management (WG-AFM), and authorized MB to take a final decision with regard to its membership and Chair, as nine NCs have shown interest already in the proposed WB (refer IEC Resolution -2/69).

3. The WG reviewed new nominations, which were accepted/provisionally admitted as given below:

Sl. No	Name of the Members	Country	Accepted / Provisionally Admitted
1.	Dr. Ikuo Yoshinaga	Japan	Accepted
2.	Engr. Syed Mahmood-ul-Hassan	Pakistan	Accepted
3.	Eng. Hind Massoud	Sudan	Provisional member
4.	Ms. Sahar Norouzi - Young Professional (YP)	Iran	Accepted

In addition, WG also accepted membership of the following professionals who were present in the meeting subject to receipt of nominations from the respective NCs:

Sl. No	Member	Country	Accepted / Provisionally Admitted
1.	Mr. Ahmad Bin Dakur	Malaysia	Accepted
2.	Engr. Abdullahi Hassan Hussein	Somalia	Accepted

4. The WG nominated Dr. Ikuo Yoshinaga (Japan) as Vice Chair in place of Dr Takao Masumoto (Japan) and Ms. Sahar Norouzi - Young Professional (YP), Iran as its Secretary. Moroccan National Committee (ANAFIDE) had proposed the nomination of Dr. Abdelilah Taky (Morocco), however, CV is yet to be received. The Membership status is given in **Annex 3. (page 51)**.

WG-AFM Minutes Item 2: Road Map to ICID Vision 2030 – Status of Activities on Adaptive Flood Management Issues

5. The WG considered the Action Plan (Road Map to ICID Vision 2030) based on the new mandate and WG decided to review it during the next meeting either virtual meeting through web-ex or next face to face meeting in September 2019 at Bali, Indonesia due to absence of WG Chair and other members of the WG.

WG-AFM Minutes Item 3: Workshop on ‘Flood Management: Recent Great Floods and Lessons Learned’ in August 2018 at Saskatoon, Canada

6. The International Workshop on ‘Adaptive Flood Management: Recent Great Floods and Lessons Learned’ was organized by WG-AFM on 12 August 2018 from 13:30-17:00 hours where four papers were presented from Japan and USA, respectively.

WG-AFM Minutes Item 4: Closure report of WG-CAFM and Publication of the Working Group on ‘Adaptive Flood Risk Management’

7. Due to absence of the WG Chair, this item could not be discussed. The Group decided that Chair of erstwhile WG-CAFM will provide the closure report and final document of the publication of the WG-CAFM to the ICID CO so that it can be circulated among the members of the group for their comments/suggestions, if any.

WG-AFM Minutes Item 5: Any other business

8. Mr. Maurice Roos (USA) and Dr. Ikuo Yoshinaga (Japan) made presentation on ‘Coping with the Biggest Water Year Ever in 2017 on the Sacramento River in California’ and ‘Watershed Management in Rural Area, Nutrient Runoff from Farmland, Water Bloom in Irrigation Pond’. Other members/observers present in the meeting also shared experiences on flood management from their respective countries.



**MINUTES OF THE 3RD MEETING OF THE
WORKING GROUP ON CAPACITY DEVELOPMENT, TRAINING AND EDUCATION (WG-CDTE)**

15 August 2018, 09.00-10.30 hours (Session I)

15 August 2018, 11.00-12.30 hours (Session II)

Saskatoon, Saskatchewan, Canada

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 2015

Completion of the Mandate: 2021

Mandate: (i) Coordinate and guide the knowledge management activities of the Commission and the capacity development activities by various WGs; (ii) Compile the status of training and educational programmes offered in different regions; (iii) Compile the Educational Programs being offered in irrigation and drainage in different regions; (iv) Identify the training and education requirements, and identify gaps in available training programs, explore the feasibility of developing e-learning program and prepare guidelines for their development to support education and training programmes; (v) Explore the scope of use of IT in capacity development including distant learning, and implement where feasible; (vi) Make available various tools required for sustainable development; (vii) Oversee the establishment and functioning of a Technical Support Unit for supporting NCs; and (viii) Facilitate the process of balancing education and training requirements, and provision of training services.

Present Members: (1) Mr. Mirza Asif Baig (Pakistan); and (2) Secretary General, ICID.

Observers: (i) Dr. Shinji Fukuda (Japan); (ii) Pr. El Houssine Bartali (Morocco); (iii) Mr. Jaepil Cho (Korea) and (iv) Dr. Sahdev Singh, Director (KM), ICID Central Office.

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

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

1. Since the Chair and Vice Chair of the WG could not attend the meeting, Pr. El Houssine Bartali from Morocco was co-opted as acting chair of the group to conduct the meeting with the support of Er. A.B. Pandya, Secretary General of ICID.

2. The WG reviewed the membership of the group which included three nominations viz., Egypt, Japan and India. VPH Dr. Mohamed Wahba (Egypt), Dr. Shinji Fukuda (Japan) and Dr. Vijay K Labhsetwar (India) were accepted as Provisional Members for one year as they were not present. Their membership will be regularized subject to their contributions in 2019. Membership status is given in **Annex 3 (Page 51)**.

WG-CDTE Minutes Item 2: Road Map to ICID Vision 2030 - Status of Activities on capacity development, training and education

3. The WG discussed and reviewed the activities as limited in the Action Plan of Road Map to ICID Vision 2030 (refer **Annex**) based on the mandate and the group decided to review it during the next meeting either virtual meeting through WebEx or next face-to-face meeting in September 2019 at Bali, Indonesia due to absence of WG Chair, Vice-Chair and other members of the WG.

WG-CDTE Minutes Item 3: Promoting capacity development, training and education

WG-CDTE Minutes Item 3.1: Updates on activities of Technical Support Unit (TSU)

4. The WG was apprised on the latest status of Technical Support Programme (TSP) activities. It was informed that TSU was established in 2016 with the overall objective to "undertake capacity development activities in the field of agricultural water management (AWM) in support of rural development" for the national stakeholders. WG appreciated the Korean Rural Community Corporation (KRC) and Korea National Committee of ICID (KCID) for their support the activities of Technical Support Programme (TSP). WG decided to request NCs to contribute towards the Fund created for undertaking activities under Technical Support Programme (TSP) through TSU and take full advantage of activities under TSP. WG also decided to request NCs to depute volunteers to undertake the activities of TSU from time to time.

5. The WG also appreciated Iranian National Committee on Irrigation and Drainage (IRNCID) for supporting capacity development program i.e. 'Workshop on 'National Water Accounting' through IRPID in December 2018 under TSP.

WG-CDTE Minutes Item 3.2: Training Programme for YPs, 2-4 May 2018 at Kathmandu, Nepal

6. The WG noted the successful organization of the 8th Asian Regional Conference (ARC) wherein 600 participants attended the conference held in Kathmandu, Nepal in May 2018. Mr. Bashu Dev Lohanee from Nepal provided more information on the ARC. He also informed about organization of training programme for YPs during 8ARC wherein 25 Young Professionals (YPs) from Asian Region attended the training programme. The training programme covered two key areas: (i) Water Footprint and Virtual Water Approach as a tool for improved Water Use Efficiency, in addition to the Micro Irrigation for improved land and water productivity, and (ii) Basin planning, its implementation, and introduction on the basin planning tool: Basin Futures.

WG-CDTE Minutes Item 3.3: Training Programme for YPs, 9-13 April 2018 at Beijing, China

7. The WG noted the organisation of 5 day Capacity Building Training Program with the support of the Chinese National Committee on Irrigation and Drainage (CNCID) and the Korean National Committee on Irrigation and Drainage (KCID) to hone the skills of the young professionals on the theme 'Performance Assessment of Irrigation Systems' from 9-13 April 2018 at China Hall of Science and Technology in Beijing, China which was attended by 19 participants from 14 countries (Australia, DPRK, India, Indonesia, Iran, Iraq, Korea, Myanmar, Nepal, Pakistan, Sri Lanka, Tajikistan, Thailand, and Uzbekistan). Trainees also attended workshop on 14-15 April 2018 organised by CNCID on the theme 'Innovations in irrigation technology'.

WG-CDTE Minutes Item 3.4: Training programme for YPs in 2019 & 2020

8. The WG noted that the infrastructure for KRC's Rural Community-International Education and Exchange Center (RC-IEEC) is almost ready. WG appreciated proposal from KRC and KCID to organize international training programmes for young Professionals (YPs) at RC-IEEC in April 2019.

9. The WG noted that ENCID will be organizing the First African Young Water Professional's Forum (Af-YPF) during 1st Cairo Water Week from 14-18 October 2018 at Cairo, Egypt. Af-YPF will cover a range of areas including utility, government, research, private consulting and industry engagement. The forum includes different hands-on-training workshops, seminars along with opening and closing sessions. ICID has taken the initiative of strengthening the Young Professional Forum aimed at building the capacity of young professionals and creating a new generation of water leaders capable of facing the future water challenges. In this regard, ICID is actively participating and providing support to the Af-YWPF by sponsoring 5 Young Professionals from African region.

10. Pr El Hussine Bartali, Vice-President of ANAFIDE informed the WG members that 5th African Regional Conference (5AfRC) on Irrigation and Drainage will be organized by ANAFIDE in collaboration with ICID and IAV Hassan II in Morocco from 16-18 March 2020 at Rabat, Morocco. Pr. Bartali also informed that capacity development programme for YPs from Africa region is also planned to be organized just prior to the 5AfRC.

WG-CDTE Minutes Item 4: Knowledge Management Strategy

11. ICID has developed a comprehensive Knowledge Management strategy to organize, store and disseminate various knowledge resources for agricultural water management. The strategy focuses on exploiting the capabilities offered by new Information and Communication Technologies (ICT). SG, ICID presented the new strategy and invited the WG members as well as NCs to participate actively in the Knowledge Management cycle. As part of this initiative, a Knowledge Portal is being designed so that contributors can upload their knowledge resources directly in the central database for wider sharing after a simple, online peer review process. It is anticipated the Knowledge Portal will be officially launched during the World Irrigation Forum at Bali, Indonesia in 2019.

WG-CDTE Minutes Item 4.1: Dissemination of Knowledge

12. The WG noted that the website of the Group http://www.icid.org/wg_cdte.html has been updated. The group requested the members to provide information, papers, presentation made on topics related to scope of the work of the WG to the ICID CO for uploading on the website of the WG.

WG-CDTE Minutes Item 4.2: Sharing of Knowledge

13. The WG discussed about organization of webinar to share vast knowledge available with ICID fraternity among members of the NCs with the support of WG experts. ICID CO requested the members to participate in the webinar/web-based seminar and also to suggest topics along with name of experts who can be consulted to deliver webinars. The updated Live recording of webinars organized by ICID so far is available at ICID website http://www.icid.org/icid_webinar.html

WG-CDTE Minutes Item 4.3: E-learning programmes as a capacity development tool

14. The WG supported the idea of development of e-learning programmes as a part of capacity development programme and it was suggested that WG through its members and NC need to develop inventory of already available e-learning modules related to agriculture water management (AWM) as well as identify need for development of new modules to fill the gap. The members of the WG are requested to provide any information available with them on various e-learning modules and details of training institutes in their country directly to WG Chair Prof. Abdelhafid Debbarh, with a copy to ICID Central Office.

WG-CDTE Minutes Item 5: Any other business

Annex (Appendix XVII, Item 2)

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-CDTE

	Activity	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal C: Facilitate exchange of information, knowledge and technology							
C5. Strategy: Dissemination of Data, Information, Tools, Knowledge and Know How	5.1 Guide and support organization of seminar/ workshops etc. by WGs and NCs	Networking and exchange of knowledge (development of knowledge portal)	Regular	Regular	Regular	Regular	Regular
	5.2 Report on role of ICT in capacity development	Study report	Discussion, collection and analysis of information Draft report	Finalisation and release of report	Collection of additional data and information	Update of report	Collection of additional data and information
Goal E: Encourage research and support development of tools to extend innovation into field practices							
E1. Strategy: Support Improving Research Prioritization in the Countries	1.3 Overseeing activities of Technical Support Unit (TSU)	Capacity development and technical support to NC	Regular	Regular	Regular	Regular	Regular
Goal F: Facilitate capacity development							
F1. Strategy: Enhancing Institutional Capacity Development of Member Countries	1.1 Provide technical support of National Committees, member and non-member of ICID (TSU)						
	1.2 Assisting to find capacity gaps in NC (TSU)						
	1.7 Contribute in the process of reorganization of NCs (TSU)						
F2. Strategy: Support Capacity Development Activities of Member Countries	2.1 Facilitate donor NCs supports joint research, invitations training, YP support program, or membership subscription in certain period (TSU)	Technical Report	Finalisation and dissemination of technical report				
	2.2 Report on capacity development needs, available training courses, gaps, institutes which can provide training to fill gaps etc.	Study report	Discussion, collection and analysis of information Draft report	Finalisation and release of report	Collection of additional data and information	Update of report	

	Activity	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
	2.3 Organizer Webinar	Online meeting	Identification of topics and resource persons/ institutes	Support development of webinar material and its wider dissemination	Support development of webinar material and its wider dissemination	Support development of webinar material and its wider dissemination	Support development of webinar material and its wider dissemination
F3. Strategy: Technical Training of Young Professionals from Member countries	3.1 Develop on-line training and extension material to be used in support of improving irrigation practices and increasing water productivity				International training for YPs in cooperation with KRC/KCID at RC-IEEC, KRC, Korea (April 2019)	YP training programme prior to 5 th AfRC on I&D 16-18 March 2020 at Rabat, Morocco	
	3.3 Establishment of a distance learning mechanism	e-learning modules	Identification of topics and resource person/institutes for development of e-learning modules	Development of e-learning modules and its wider dissemination	Development of e-learning modules and its wider dissemination Identification of additional topic etc.	Development of e-learning modules and its wider dissemination	Development of e-learning modules and its wider dissemination
	3.4 Capacity development/training program on request from NCs	Training of professionals	Organisation of regional training program one every year	Organisation of regional training program one every year	Organisation of regional training program one every year	Organisation of regional training program one every year	Organisation of regional training program one every year
	3.5 An online directory of institutes providing formal degree in Irrigation and Drainage	Online course	Collection and analysis of information and its wider dissemination	Update of information	Update of information	Update of information	Update of information
F5. Strategy: Providing Technical Support to NC's (TSU)							

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 1ST MEETING OF THE
WORKING GROUP ON HISTORY OF IRRIGATION, DRAINAGE AND
FLOOD CONTROL (WG-HIST)**

15 August 2018, 13.30-15.00 hours (Session I) and 15.30-17.00 hours (Session II)
Saskatoon, Saskatchewan, Canada

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 2017

Completion of the Mandate: 2023

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

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

Members Present: (1) Dr. Hatcho (Japan), Acting Chair; (2) Mrs. Xuming Tan (China); (3) Mr. Marco Arcieri (Italy) represented Mr. Antonio Linoli; (4) VPH Dr. Laszlo Hayde (Hungary); (5) Engr. Sirika Ahmad Abubakar (Nigeria); (6) VPH Dr. Gerhard Backeberg (South Africa); (7) Dr. Sinite Yu (Chinese Taipei).

Observers: (i) PH Peter Lee (UK); (ii) Mr. Gao Lihui (China); (iii) Mr. Li Yimpeng (China); (iv) Dr. Ray-Shyan Wu (Chinese Taipei); (v) Dr. Sahdev Singh, ICID Central Office (India); (vi) Hassan Farahani (Iran); (vii) Yuta Takeno (Japan); (viii) Dr. Naoko Koshiyama (Japan); (ix) Mr. Mukhlis Zainol Abidin (Malaysia); (x) Dr. Zaw Zaw Latt (Myanmar); (xi) Engr. Abubakar Sirika Ahmad (Nigeria).

WG-HIST Minutes Item 1: Introduction by the Chair

1. In absence of Chair Dr. Kamran Emami, Dr. Hatcho conducted the WG meeting as Chair. Noting the poor attendance at the Workshop on 12 August, the group recommended that Chair should regularly communicate with members and make available information and also inform the decisions taken by the Chair.

2. The group reviewed the membership of Dr. Ahmed Adam Ibrahim (Sudan), VPH Prof. Dia El Din Ahmed El Quosy (Egypt) and accepted the nominations as Provisional Members as they were not present at the meeting. Dr. Sinite YU from Chinese Taipei attended the meeting and the group accepted his membership for the WG. The group revisited the membership of Eng. S.P.C. Sugeeshwara (Sri Lanka) and recommended to maintain the membership in light of his contributions to the WG publication.

WG-HIST Minutes Item 2: Road Map to ICID Vision 2030 - Activities on history of irrigation, drainage and flood control

3. The group discussed and reviewed the activities as part of the Road Map to ICID Vision 2030 (refer **Annex**). After discussion, the group proposed that a Workshop on Historical Management of Water (*provisional theme*) will be organized at Bali in September 2019. It was proposed that the WG will set up an organizing committee to prepare for the workshop. One member of the organizing committee will be VPH Dr. Gany from Indonesia and other 2 or 3 will be nominated by the Chair.

WG-HIST Minutes Item 3: Publication on “Historical Water Sustainability”

4. The group thanked the efforts and assistance provided by PH Prof. Bart Schultz (Netherlands) for formatting the book. However, it was suggested that the concluding chapter be prepared by Dr. Emami as the Chair of the WG. The group recommended that the chapter should be prepared and incorporated into the book as quickly as possible. After discussion, the WG agreed that the time frame of finalization of the book as follows:

- End of September 2018: Reviewers' comments will be sent to each author
- End of October 2018: Authors will revise the document
- From October to the end of year 2018: PH Peter Lee will edit English text

WG-HIST Minutes Item 4: Exchange of information, knowledge and networking – Website**WG-HIST Minutes Item 4.1. Website of the group**

5. After discussion, the group suggested that all the presentations made in the workshop be uploaded on the website of the WG.

WG-HIST Minutes Item 4.2. Webinar/ Web based seminar

6. The Chair proposed that WG will concentrate in finalizing the book on Historical Water Sustainability and after that WG would concentrate on organizing webinar.

WG-HIST Minutes Item 5: Review of World Historical Irrigation Structures (WHIS) and WSH Program

7. WG agreed to the changes made by the Management Board of ICID from HIS to the WHIS (renaming as well as scheme content). The Chair reported that this year, 14 WHIS schemes were registered viz. 4 from China, 2 from India, 1 from Italy, 4 from Japan and 3 from Sri Lanka. Chair encouraged members to take initiative of encouraging nomination for WHIS and observed that WHIS is providing opportunity to publicize ICID name and encourage general public to participate in managing such systems, taking example for Japanese experience.

WG-HIST Minutes Item 6: Workshop organized by the working group, August 2018, Canada

8. Due to lack of communication and preparation, as well as poor timing of the workshop (coincided with the technical tour), the group noted that the attendance was not satisfactory. After discussion, WG recommended that future workshop be organized within the time frame of WG meetings.

WG-HIST Minutes Item 7: Any other business

9. Presentation was made by Mr. Mukhlis Zainol Abidin, Malaysian observer for WHIS (Mada Irrigation Canal). WG recognized that such presentation on registered or nominated WHIS schemes will provide members to learn lessons from these historical structures. WG agreed to invite such presentations from next year onwards.

10. Mr. Marco Arcieri from Italy explained his initiative of publishing the document on the impact of climate events on ancient civilization. Such initiative was welcomed by the WG and the Chair recognized that it can be proposed for future WG activity after finalizing the book on Historical Water Sustainability.



Annex [Appendix XVIII, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal C: Facilitate exchange of information, knowledge and technology							
C1. Strategy: Providing Knowledge-sharing Platform for AWM Professionals	1.2 International conference/ workshop/ seminar on History	Workshop Proceedings	Workshop/ seminar on Historical Water Sustainability		Workshop/ seminar		
C3. Strategy: Promoting Regional Cooperation	3.10 International conference/ workshop/ seminar	Workshop Proceedings					
C4. Strategy: Compile, Collate and Share Knowledge and Experiences	4.5 Publication on Historical Water Sustainability	Publication	Finalize the publication on Historical Water Sustainability	Compile lessons learned from WHIS/ WSH		Compile lessons learned from WHIS/ WSH	
	4.6 World Historical Irrigation Structures (WHIS)	Register of WHIS	Nomination/ evaluation / update register	Nomination/ evaluation /update register	Nomination/ evaluation / update register; Exhibition at WIF3	Nomination/ evaluation /update register	
	4.7 World Water System Heritage (WSH) Program	Register of WSH	Nomination/ evaluation / update register	Nomination/ evaluation / update register	Nomination/ evaluation / update register; Exhibition at WIF3	Nomination/ evaluation / update register	
C5. Strategy: Dissemination of Data, Information, Tools, Knowledge and Know How	5.10 Producing documentary on "Historical Water Wisdom".	Documentary	Tentative gathering of the related documentaries from the member countries	Encouraging the member counties to produce documentaries on water history by presenting the prize on the best documentaries			
	5.11 Updating the WG-HIST website	Online					
	5.12 Producing documentary on "Historical Water Wisdom".						
Goal E: Encourage research and support development of tools to extend innovation into field practices							
E4. Strategy: Research on History of Irrigation and Lessons Learned from the past							
E6. Strategy: Dissemination of Useful Research Outputs	6.1 Prepare a paper on combination of old methods and new technologies		Presenting the first paper in the WG workshop and other seminars	Presenting the second paper in the WG workshop and other seminars			

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 25TH MEETING OF THE
ICID JOURNAL EDITORIAL BOARD (EB-JOUR)**

15 August 2018, 13.30-15.00 hours (Session-I)
15 August 2018, 15:30-17:00 hours (Session-II)
Saskatoon, Saskatchewan, Canada

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 1994

Mandate: (i) To ensure with the (Joint) Editor(s) that the Journal is published in accordance with editorial policies; (ii) To select and recommend to IEC, through PCTA, the appointment of (Joint) Editor(s), Associate Editors and Members; (iii) To review and update editorial policies when required, to conform with the developing ICID objectives; (iv) To address and resolve issues pertaining to the Journal; and (v) To review guidelines for authors, manuscript reviewers and book reviewers and liaise and coordinate with ICID workbodies.

Members Present : (1) PH Bart Schultz, Chairman (The Netherlands); (2) Dr. Li Jiusheng, Joint Editor (China); (3) Mr. Bernard Vincent, Associate Editor (France); (3) Dr. Henk Ritzema, Associate Editor (Chinese Taipei); (4) Prof. Graziano Ghinassi, Associate Editor (Italy); (5) VPH Laszlo Hayde, Associate Editor (Hungary); (6) VPH Larry D. Stephens (USA); (7) Dr. Yohei Sato (Japan); (8) Mr. Brent Paterson (Canada); (9) Dr. Poolad Karimi (Iran); (10) Dr. Severine Tomas, Associate Editor (France) represented by Bernard Vincent; (11) Prof. Jin-Young Choi, Associate Editor (Korea); and (12) Dr. Vijay K. Labhsetwar, ICID Central Office.

Observers: (i) Dr. Takanori Nagano (Japan) and (ii) Ir. Luis Garcia (USA) represented by Larry D. Stephens.

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

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

1. The Chairman PH Bart Schultz informed that the report of the Chairman for 2017 had been disseminated to the members of the Editorial Board before the meeting. Various points emerging from the report were discussed during the meeting.
2. The following new nominations for the membership were accepted:

SI. No.	Name of the Members/Associate Editors	Country	Accepted as
01.	VPH Prof. Dr. Dia El Din Ahmed El Quosy	Egypt	Member
02.	Dr. Takanori Nagano	Japan	Associate Editor
03.	Dr. Luis Garcia	USA	Member

3. Mr. Larry D. Stephens (USA) and Dr. Marcel Kuper (France) will continue as members of the EB-JOUR. It is proposed the membership of Prof Takao Masumoto (Japan) will be step down.
4. The Chairman presented his report and the Joint Editor, Jiusheng Li presented his ideas on improving the review process. Several items were discussed and will be followed-up in due course of time, such as:
 - (a) Authors will be informed when their paper has been, in principle, approved;
 - (b) The Joint Editors do a preliminary screening and check for overlaps with previous works before they forward a received paper to the Associate Editors or directly to the reviewers. Associate Editors, who may be more familiar with the topics of the papers, will be invited to do a preliminary screening of the papers for their in-principle acceptance before forwarding the papers to reviewers.

EB-JOUR Minutes Item 1.1: Special Issues

5. Six new Special Issues may be expected in 2018-19, they being:
 - (a) A Sponsored Special Issue on New Developments on Irrigation in Africa. This special issue is based on the results of a European Union supported project with several partners, especially IRSTEA

(France) and Wageningen University (The Netherlands). It is expected to be published at the time of the last issue of this year (December 2018), or the first issue of next year (February 2019);

- (b) The French National Committee (AFEID) is taking care of the sponsored Special Issue with selected papers of the Regional European Conference in Montpellier (2015). The Special Issue is expected to be published in 2019;
- (c) A Special Issue with selected papers from the 23rd ICID Congress in Mexico City (2017) will most probably be published as the first issue of next year, Issue 68.1;
- (d) A Special Issue with invited papers related to the ICID Vision 2030 and Action Plan will most probably be published in the first half of next year;
- (e) The Chinese National Committee will prepare a sponsored Special Issue on '*Recent development on Water Management in China*';
- (f) The WG-SDTA will prepare a third sponsored Special Issue based on the papers presented during its meetings and workshops. To be published in 2021.

EB-JOUR Minutes Item 1.2: French resumés

6. The check of the French texts has been transferred from Bernard Vincent to Severine Tomas. The EB thanks Bernard Vincent for his careful work on the checks of the French texts over the years.

EB-JOUR Minutes Item 1.3: Recognition to the reviewers

7. In the forthcoming issues of the Journal, the Joint Editors and Associate Editors that handled the review process will be mentioned at an appropriate place.

EB-JOUR Minutes Item 1.4: Review process

8. Based on the Table as was presented and discussed in the Mexico City meeting (2017), the periods for the various steps in the review process have been reduced since May 2018. This will significantly speed up the review process.

EB-JOUR Minutes Item 1.5: Best Paper Award 2018

9. The winners of the 'Best Paper Award 2018' were announced during the IEC Plenary Session on 13 August 2018. The winners were:

- (a). Abdullah Darzi-Naftchali, Fatemeh Karandish and Ahmad Asgari (Iran) for their paper titled "*Diagnosing Drainage Problems in Coastal Areas Using Machine-Learning and Geostatistical Models*" published in Volume 66, Issue 3 in July 2017;
- (b). R.E. Abdelraouf (Egypt) and R. Ragab (UK) for their paper titled "*The Benefit of using Drainage Water of Fish Farms for Irrigation: Field and Modelling Study Using the Saltmed Model*" published in Volume 66, Issue 5 in November 2017.

EB-JOUR Minutes Item 2: Road Map to ICID Vision 2030: Action Points of Editorial Board

10. The milestones set for the Editorial Board in relation to the Road Map to ICID Vision 2030 have been reported in the Agenda of the EB. In general, the progress has been better than envisaged. A Special Issue with invited papers is under preparation and is expected to be published in the first half of next year.

EB-JOUR Minutes Item 3: Distribution of the Journal among the ICID membership

11. A total of 832 copies were distributed to members in 2018 i.e. 565 "Online-only" subscriptions, 155 subscriptions as "Online + print" and 112 as "print-only" subscriptions. The 'Direct Members' (DM) and Young Professionals (receiving ICID scholarship) have been added to the list receiving ICID Journal.

EB-JOUR Minutes Item 4: Issues related with M/s. Wiley-Blackwell

12. The regular contacts with M/s. Wiley-Blackwell have been very effective and the publisher is very well catching up with the new developments in the publishing world.

EB-JOUR Minutes Item 5: New Agreement between ICID & M/s. Wiley-Blackwell (2019-2025)

13. The new Agreement between ICID and M/s. Wiley-Blackwell (2019-2025) has been signed and was placed for post-facto approval in the PCTA/IEC meetings during the 69th IEC Meetings (2018). The highlights of the Agreement were:

- (a). A renewal of contract for calendar year 2019 and a publishing scenario for a seven-year period (2019-2025), based on an annual price increase of 1% for the online subscriptions and 3% for the printed versions;
- (b). ICID shall remain the sole and exclusive owner of the Journal, including the copyright, name (and any new name or title agreed by the parties);
- (c). M/s Wiley will provide approximately 800 copies per volume to ICID members eligible to receive access to the Journal from Volume 68 (2019) onwards, of which a maximum of 300 members may receive the Journal in both print and online versions;
- (d). In addition, ICID will get a greater flexibility in choosing how many individuals can access the Journal online, and incentives for greater uptake and online usage of the journal by National Committees and their members, based on a fixed fee for online only access to the Journal to as many members as ICID may wish, in addition to continuing the current arrangement for print member subscriptions charged per subscription;
- (e). A prize of US\$ 500 per annum to the best paper award winner;
- (f). M/s Wiley's global sales penetration and marketing expertise will ensure an increasing and stable return in subscription revenues for IRD.

EB-JOUR Minutes Item 6: “Privacy Policy” of Irrigation and Drainage Journal

14. The Chairman presented the proposed “Privacy Policy” of Irrigation and Drainage Journal as could be seen in Annex 3 of the Agenda of EB-JOUR. It is proposed that the formal policy as attached to these minutes in **Annex** will be post-facto approved by PCTA/IEC.

EB-JOUR Minutes Item 7: Any other business

15. This was the last EB-JOUR meeting of Prof. Dr. Vijay K. Labhsetwar from ICID Central Office as he has retired from the services of ICID in March 2018. He has been handling the various matters in relation to *Irrigation and Drainage* since 2005. The EB expressed its sincere thanks for the excellent work that he has done for *Irrigation and Drainage*.



**PRIVACY POLICY OF
IRRIGATION AND DRAINAGE JOURNAL**

The International Commission on Irrigation and Drainage (ICID) with its Central Office based in New Delhi, India publishes its scientific Journal Irrigation and Drainage based on an Agreement with the publisher M/s John Wiley & Sons, Inc (UK).

The publisher has developed a privacy policy for its activities that recognizes the importance of protecting the personal information collected from users in the operation of its services and taking reasonable steps to maintain the security, integrity and privacy of the collected information (see: <https://www.wiley.com/enus/privacy>). ICID submits on an annual basis information on members of its National Committees or direct members to M/s Wiley in relation to the special ICID member subscriptions that have been agreed upon with M/s Wiley. With respect to this, ICID consents to the practices described in the privacy policy of M/s Wiley. In addition, although it was not yet formulated in a formal policy, it has always been ICID's own practice, as it will be in future as well, not to use the data of members of its National Committees and of direct members for other purposes than where the data are intended for. In case of its Journal Irrigation and Drainage, this is just to enable M/s Wiley to provide the ICID members with access to the Journal, either by online access and/or by provision of printed copies. The information that is collected concerns only the contact data of the individuals and institutions that are entitled to receive Irrigation and Drainage, either by online access, or in print. ICID's Central Office collects these data by sending, on an annual basis, the draft lists of the potential subscribers to the secretariats of its National Committees with an invitation to check them and to inform ICID's Central Office on any corrections that are required. The revised list is then submitted to M/s Wiley.

The existing practice has been formalized in a policy during the International Executive Council (IEC) meeting August 12-17, 2018 in Saskatoon, Canada.



**MINUTES OF THE 2ND MEETING OF
TASK FORCE FOR UPDATING AND MAINTENANCE OF
MULTILINGUAL TECHNICAL DICTIONARY (TF-MTD)**

13 August 2018, 13.30-15.00 hours
Saskatoon, Saskatchewan, Canada

Year of Establishment: 2016

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

Members Present: (1) VPH Dr. Ding Kunlun, Chair (China); (2) Dr. Yu-Chuang Chang from WG-IOA (Chinese Taipei); (3) Mr. Bernard Vincent from WG-SDRG (France); (4) Dr. A.K. Randev from WG-SON-FARM (India); (5) Ms. Mary Jean M. Gabriel from WG-IDM (South Africa); (6) VP Ian Makin from WG-M&R (UK).

Observers: (i) Dr. Sahdev Singh, ICID Central Office (India); (ii) Dr. Takanori Nagano (Japan).

TF-MTD Minutes Item 1: Action taken report by Chair

1. At the onset, Chair welcomed and presented the report on the actions taken on the decisions held at its last meeting at Mexico in October 2017. Chair informed that no virtual meeting of the Task Force (TF) could be organised since Mexico meeting.

2. Dr Yu-Chuang Chang from WG-IOA and Ms. Mary Jean M. Gabriel, Chair, WG-IDM, reported that they had submitted their updation of MTD chapters to the Central Office however, it was not received by the Chair and other members. TF noted that about 128 terms/ words were updated. Chair requested that all the updation by the members should be sent to the Chair and shared with other members. Chair encouraged members / WGs to continue to update the terms related to their chapters of the MTD and provide the same to the Chair and members of the TF as well as to ICID CO. Membership status is given in **Annex 3 (page 51)**.

TF-MTD Minutes Item 2: Technical Dictionary on AWM of other organizations

3. After discussion, the TF recommended to undertake updation of relevant terms of MTD with the support of the relevant WGs. A list of Keywords will be selected from the most frequently appearing terms in the papers of World Irrigation Forum (WIF)/ Conferences of ICID, as part of the MTD updation process.

TF-MTD Minutes Item 3: Process for updation of MTD

4. The TF members agreed to focus on the possible update of the current English edition by checking the chapters and terms to see if any chapter/ terms need to be modified, new terms to be added, any term to be deleted as well as inclusion of any photos, diagrams, link etc. The Chair requested members to discuss and collect the updation of terms related to MTD in respect of their WGs. About 223 such keywords had been selected and provided by Dr Sahdev Singh from ICID Central Office. The TF suggested that these keywords could be considered as part of the updation, and the Central Office can request NCs to provide the definition of these keywords.

TF-MTD Minutes Item 4: Translation of MTD in various local languages

5. After discussion, the Chair suggested that once the English updation is completed, translation of the updated MTD in different languages can be considered by respective NCs facilitated by the Central Office.

TF-MTD Minutes Item 5: Dissemination and maintenance of MTD

6. The item was not discussed due to time constraint.

TF-MTD Minutes Item 6: Organization of online / WebEx meeting

7. The Chair suggested that the TF may organize a WebEx meeting sometime in June/ July 2019, in consultation with the members through DOODLE POLL.

TF-MTD Minutes Item 7: Any other business



**MINUTES OF THE 3RD MEETING OF THE
TASK FORCE TO GUIDE ICID INPUTS TO 8TH WORLD WATER FORUM (TF-WWF8)**

14 August 2018, 17.00-18.30 hours
Saskatoon, Saskatchewan, Canada

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 2015

Completion of the Mandate: 2018

Mandate: (a) To provide overarching lead role on behalf of ICID in monitoring and pushing forward the actions set in IR (Implementation Roadmap) and for inputs to 8th WWF by liaising with the National Committees and Workbodies; (b) To liaise with Brazilian National Committee (ABID) for preparatory work of 8th WWF; (c) To liaise with 8th WWF Program Committee and other International Bodies, especially FAO; (d) To regularly report to the IEC of the developments in the preparatory works leading to 8th WWF and recommend ICID inputs for consideration in 67th IEC; (e) To entertain activities to promote ICID's visibility in World Water Council.

Members Present: (1) PH Dr. Chandra Madramootoo, Chair (Canada); (2) VPH Dr. Ding Kunlun (China); (3) Mr. Hassan Farahani (Iran) represented Mr. Ali Reza Salamat; (4) VPH Dr. Shinsuke Ota (Japan).

Observers: (i) President Felix B Reinders (South Africa); (ii) Dr. Tsugihiko Watanabe (Japan); (iii) Mitsuo Ishijima (Japan).

TF-WWF8 Minutes Item 1: Action taken report by Chair

1. The Chair welcomed the members and briefed them on the action points emerged from the minutes of the previous meeting of the TF held at Mexico City in October 2017.

TF-WWF8 Minutes Item 2: A brief report of various sessions where ICID represented during 8th World Water Forum, March 2018, Brasilia, Brazil

2. President Felix Reinders provided a detailed report of the involvement of ICID activities at 8th World Water Forum (WWF8) in Brasilia in March 2018. He indicated that there was an excellent turnout of Ministers and international dignitaries at the Forum, with over 8000 delegates. The ICID implicated sessions with FAO were very well attended. This was held under the Technical Panel - Session on Farming for ecosystem services. ICID participation also occurred on the theme of Development – Water for Sustainable Development, the WASAG Special Session, and the Water Account Side Event with FAO.

3. A very important and major event which was also held at the Forum, in conjunction with the World Water Council, was the World Water System Heritage (WSH) Recognition. Recognition, with selection by an International Panel of Judges, were given to: (i) The Genbegawa Irrigation Canal System, Japan; (ii) Sekikawa Suikei Land Improvement District, Japan; and (iii) Sheikh-Bahaei Water Allocation Scroll, Iran. Citation Plaques and Certificates were presented to the representatives of the three countries by Prof. Benedito Braga, President, WWC, and President Felix Reinders, ICID.

4. There was much discussion about this ceremony. It was recognized as an excellent initiative, but the awarding ceremony could have been done in a better manner. The ceremony was held in the Exhibition area, and was mixed with the exhibitors. Therefore, the ceremony did not benefit from a special area where the awards could have been given in a ceremonial manner. All participants indicated support for the World Water System Heritage (WSH) Recognition, and asked ICID President and Secretary General to discuss with the WWC as to how this ceremony could be better facilitated at future WWF events.

5. VPH Dr. Ding Kunlun, VPH Dr. Shinsuke Ota, Mr. Ishijima, and Dr. Watanabe, who were present in Brasilia, spoke very highly about ICID activities and events at WWF8. They also supported continuation of World Water System Heritage (WSH) Recognition, but with better recognition ceremony.

TF-WWF8 Minutes Item 3: Closure report of the Task Force

6. Both President and Secretary General also met with many Brazilian experts in Brazil. They used the opportunity to help and build support for the reactivation of the Brazilian National Committee.

7. With active engagement of President and SG at WWF8, it is considered that all actions and reporting for WWF8 are now closed.

TF-WWF8 Minutes Item 4: Establishment of new TF-WWF9 and its mandate

8. It was proposed to establish the new TF-WWF9 with PH Saeed Nairizi (Iran) as its Chair, which has since been approved by PCTA/ IEC. Discussion ensued about the nomination of members for 9th World Water Forum (WWF9) to be held in Senegal in 2021. The following nominations were proposed:

- PH Saeed Nairizi, Chair (Agreed to serve)
- Secretary General Ashwin B Pandya, ICID – Member Secretary
- PH Chandra Madramootoo (Agreed to serve)
- M. Dominique Rollin, French National Committee (Agreed to serve)
- VPH Adama Sangare (To be contacted)
- VPH Prof. Dr. Abdelhafid Debbarh (Morocco) (To be contacted)
- VPH Dr. Shinsuke Ota (Japan) (Agreed)
- Mr. Mitsuo Ishijima (Japan) (Agreed)
- Dr. Tsugihiko Watanabe (Japan) (Agreed)
- VPH Dr. Bong Hoon Lee (Republic of Korea) (To be contacted)
- VPH Laurie C. Tollefson (Canada) (To be contacted)
- Mr. Anuj Kanwal (India) (To be contacted)
- Mr. Hassan Farahani (YP Iran) (Agreed to serve)
- VPH Dr. Ding Kunlun (China – to be confirmed)
- YP from Africa to be nominated
- Other nominations from National Committees and international organizations

9. The TF suggested that nominations from other National Committees and international organizations may be invited.

TF-WWF8 Minutes Item 5: Any other business

10. It was agreed that Central Office will work to finalize the above nominations and seek any additional nominations. It will be presented to the 70th IEC in Bali for approval and formally launch the TF-WWF9. It was also agreed that ICID will collaborate and partner with FAO in joint sessions for WWF9. The Theme and Sub Themes of the Forum are to be announced and the new TF will decide on the appropriate participation, once more information on WWF9 becomes available from the World Water Council.



**MINUTES OF THE 1ST INFORMAL MEETING OF THE
WORKING GROUP ON VALUE ENGINEERING (WG-VE)**

14 August 2018: 13:30-15:00 hours (Session-I)

14 August 2018: 15:30-17:00 hours (Session-II)

Saskatoon, Saskatchewan, Canada

Strategy Theme: Knowledge

Presented by the Chairman

Year of Establishment: 2017

Completion of the Mandate: 2023

New Mandate of the WG:

- (a) To motivate ICID National Committees in various countries to set up their National Working Groups
- (b) To provide guidance to compile, publish, update and/or translate documents on Value engineering projects (irrigation, drainage, flood management, and river engineering);
- (c) To promote inter-disciplinary exchange of information, knowledge and experience, as well as networking on the topic;
- (d) To organize seminars at ICID Congresses and meeting to enhance awareness of importance of Value Engineering;
- (e) To prepare a paper on “Application of Value Engineering in Irrigation and Flood Projects” for publication in Irrigation and Drainage (IRD);
- (f) To finalize a book on Application of Value Engineering in Irrigation and Flood Projects”
- (g) To encourage member countries to produce papers on Value Engineering case studies

Members Present: (1) Ir. Nor Hisham M. Ghazali (Malaysia), Secretary; and (2) Dr. Toshihiko Kuno (Japan).

Observers: (i) Ir. Mei-Yuan, Su (Chinese Taipei); (ii) Ir. Christy Omenu Oduh (Nigeria); and (iii) Engr. Chuba J. Umechukwu (Nigeria).

Website: <http://tf-ve.icidonline.org/>

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

1. Since the Chair and Vice Chair of the WG could not attend the meeting, Ir. Nor Hisham M. Ghazali from Malaysia, Secretary of the WG was co-opted as chair of the group to conduct the meeting with the support of Dr. Toshihiko Kuno (Japan). The group provisionally accepted the nomination of Dr. Yawen, Chueh from Chinese Taipei as a member. No new nominations were received during the meeting.

WG-VE Minutes Item 2: Introduction of the Scoping Document for a new WG

2. During the meeting, the WG noted that the members who were present have not received the finalised Scoping Document of the new WG. The revised mandate for a new Working Group on Value Engineering (WG-VE) was again shared with the members who were present. The WG agreed that the new mandate should be further discussed in the next meeting of the WG to ensure understanding and alignment with ICID Road map to Vision 2030.

3. During the IEC meeting, the Council recommended to investigate the need for the establishment of the WG on Value Engineering (WG-VE) subject to completion of the output of TF-VE and resubmission of the revised scoping document for getting support of at least 10 National Committees to nominate experts from their countries to the activities of the WG.

WG-VE Minutes Item 3: Workshop in August 2018 at Saskatoon, Canada in August 2018

4. As planned, the “Workshop on Application of Value Engineering in Irrigation and Flood Projects” was convened on 14th August 2018 from 15:30-17:00 hours. Three papers were presented. New members and observers were advised to view the earlier presentations that have been uploaded on the TF-VE website.

5. The WG-VE workshop concluded that a similar internal workshop should be organized in conjunction with the next ICID’s meeting in September 2019 at Bali, Indonesia.

WG-VE Minutes Item 4: Publication of the TF-VE

6. During the meeting, a draft publication of the WG entitled “Value Engineering Applications in Irrigation, Drainage and Flood Projects” was discussed and submitted to the ICID CO for circulation amongst WG members and their NCs for comments/suggestions, if any. The proposed publication will be brought out as e-Publication.

WG-VE Minutes Item 5: Dissemination of information - Website

7. It was noted that the WG presentations from the last meeting held in Mexico City are yet to be uploaded on the TF-VE website. WG members requested WG Chair and ICID CO to upload presentation of internal workshop on the web site of the WG.

WG-VE Minutes Item 6: Closure Report and Scoping Document with revised mandate for a new WG

8. The finalised Closure Report of the TF is yet to be circulated to WG members and their NCs for comments/suggestions, if any. It was decided that Chair of erstwhile TF-VE will submit closure report of the TF to ICID CO for circulation amongst members of the TF for their views and comments, if any.

WG-VE Minutes Item 7: Any other business

9. During the meeting, it was noted that the Chair Dr. Kamran Emami had organised a training workshop on Value Engineering (VE) on 8 March 2018 for a team of 25 young professionals engaged in the water and agriculture sector from the Institute for Technology and Resources Management in the Tropics and Subtropics (ITT) of Technical University of Cologne, Germany; Agricultural Sciences and Resource Management in the Tropics and Subtropics (ARTS) of the University of Bonn, Germany and Environmental Science Research Institute of the Shahid Beheshti University Tehran, Iran. The Group proposed that a brief report of the workshop should be presented in the next meeting.



**MINUTES OF THE 3RD MEETING OF THE
WORKING GROUP ON SUSTAINABLE ON-FARM IRRIGATION
SYSTEM DEVELOPMENT (WG-SON-FARM)**

15 August 2018, 09.00-10.30 hours
Saskatoon, Saskatchewan, Canada

Strategy Theme: On-Farm

Presented by the Chairman

Year of Establishment: 2016

Extended the completion of the Mandate: 2022

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.

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

Members Present: (1) Dr. A.K. Randev, Chairman (India); (2) Mr. Carl Walters, Vice Chair (Australia); (3) Dr. Zhang Guohua – Young Professional (China); (4) Dr. Chen, Ching-Tien (Chinese Taipei); (5) Mr. Hassan Shantia (Iran) represented by PH Saeed Nairizi; (6) Dr. Graziano Ghinassi (Italy); (7) Dr. Akira Iwamoto (Japan); (8) Prof. Chang Eon Park (Korea, Rep. of); (9) Mr. Bashu Dev Lohanee (Nepal).

Observers: (i) Ms. Kathleen Murray (Australia); (ii) Li Yunpeng (China); (iii) Dr. Yu-Min Wang (Chinese Taipei); (iv) Sam Yu (Chinese Taipei); (v) Dr. Shinichi Urano (Japan); (vi) Dr. Seung Hean Lee (Korea, Rep. of).

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

1. The Chair welcomed and presented the report on the actions taken on the decisions and proposals of the working group since its last meeting held at Mexico in October 2017.

2. Secretary of the WG Mr Suman Sijapati could not attend the meeting however, the group noted that he made contributions to the working through email. Mr. Hassan Shantia (Iran) was represented by PH Saeed Nairizi and Dr. Zhang Guohua- Young Professional (China) attended the WG meeting and hence recommended to continue as Member. Dr. Abraham Mehrai Haile (The Netherlands), Dr. Dickson Ahagbuje (Nigeria), Mr. Muhammad Tahir Anwar (Pakistan), Mr. Suhad Jassim Obeed (Iraq), Mr. Hussein Shanan Abid – Young Professional (Iraq) neither attended the meeting nor contributed to the activities of the group for more than one year so the group suggested to invite new nominations from the respective NCs.

3. Dr. Ibrahim Mohamed Mahmoud (Egypt) and Prof. LB Roy, Direct Member (India) did not attend the meeting hence, they were accepted as Provisional Members. Dr YU-Min Wang from National Pingtung University of Science and Technology (Chinese Taipei), nominated by the Chinese Taipei Committee, attended the meeting and his nomination for the membership of the WG was accepted. Membership status is given in **Annex 3 (page 51)**.

WG-SON-FARM Minutes Item 2: Road Map to ICID Vision 2030 – Status of activities on sustainable on-farm irrigation

4. The group reviewed the activities as part of Road Map to ICID Vision 2030 and updated the progress (refer **Annex**). During the meeting, Chair made a presentation on types of papers and method of preparing papers – Position papers, Overview papers and Thematic documents by adopting scientific methods which are required as per WG strategies laid down under SDGs. The WG agreed to prepare three papers - one position paper, one overview paper and one thematic document to be presented during the next WG meeting. Dr Ghinassi, Mr Carl Walters and Dr Yu-Min Wang agreed to prepare one paper each for the next meeting of the WG.

WG-SON-FARM Minutes Item 3: Collection and collation of micro and sprinkler data

5. At Saskatoon, the Chair encouraged members to access the website and provide the updated information in respect of data pertaining to their countries so that the datasheet of Sprinkler and Micro Irrigation can be updated regularly. The updated table of total sprinkler and micro area (in descending order) is available at <http://www.icid.org/sprinklerandmicro.pdf>. The group noted that the ICID CO has followed-up with the members/

NCs and encouraged them to provide the latest information. The Chair updated the members the way data can be further collated and used by the respective members and all readers with the help of few selected techniques. WG Chair agreed to prepare prepared document on this and same will be presented during the next meeting by him.

WG-SON-FARM Minutes Item 4: Publications of the working group

WG-SON-FARM Minutes Item 4.1: Article on “Improvement of the On-Farm Irrigation Systems Using Simple Water Control, Measuring and Application Devices”

6. At Saskatoon, the group noted that article “Improvement of the on-farm irrigation systems using simple water control, measuring and application devices” is under final stage for possible publication in the ICID Journal. The Chair will discuss the present status of article with the concerned author after having discussion with the Ex-Chair PH Felix Reinders and will take necessary actions required for its early completion.

WG-SON-FARM Minutes Item 4.2: Paper on “Micro irrigation for smallholders and greenhouses”

7. During Saskatoon meeting, members noted that the paper “Micro irrigation for smallholders and greenhouses” is under final stage for possible publication in the ICID Journal. The group discussed the finalization of the paper which is pending for the last three years while Chair agreed to take necessary required action.

8. Mr. Carl Walters informed the members that the technical paper titled “Farm Water Program: Using the Water Savings Calculator” authored by C. Norman; C. Walters; M. McFarlane; C. Nicholson; and D. Lawler had been published in the Special Issue of Irrigation and Drainage Journal in May 2018 and the abstract is available at <https://onlinelibrary.wiley.com/doi/pdf/10.1002/ird.2246>.

WG-SON-FARM Minutes Item 5: Dissemination of activities of WG

WG-SON-FARM Minutes Item 5.1: Website of the group

9. The group noted that the website of the working group <http://wg-on-farm.icidonline.org/> is fully updated with new membership list, agenda, minutes etc. During Saskatoon meeting, Chair encouraged all members to share information, knowledge & experience and provide papers, presentations, articles, reports etc. related to any outcome of their research or development efforts at their respective working places to ICID Central Office for uploading on the WG website for wider dissemination.

WG-SON-FARM Minutes Item 5.2: Webinar/ Web based seminar

10. The group Chair noted the importance of the organization of the webinars and requested all members to suggest a few topics based on the mandate of the WG on which webinar can be considered. During the meeting, Dr. Graziano Ghinassi (Italy) informed the WG members that he will be able to deliver webinar in the month of October 2018 as field trials are on going and results are awaited and the same has been conveyed to the CO. The chair requested members to visit the website of the ICID CO for participation in the webinar.

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

11. The group discussed about updating of MTD and after discussion, the Chair encouraged members to undertake the review of the concerned terms depending on their domain of expertise and suggest changes/modifications and additions of new term(s), if any along with pictures, links and videos related to respective term(s). Chair also informed the members to supply any such information to the executive members - Chair, Vice Chair and Secretary of the WG for its further transmission to the ICID CO.

WG-SON-FARM Minutes Item 7: Joint Session of Strategy Theme On-Farm, August 2018, Canada

12. The Chair informed the members about the Terms of Reference (TOR) of Sub-Committee on Themes, Topics and Work Plans for Future ICID Events (SC-E-THEMES) as revised at Mexico meeting to make the WG meetings/sessions technically richer and beneficial to the stakeholders and industries by exploring the ways of combining the meetings of work bodies with areas of common interest or holding webinars, etc. in the light of mandate of the three WGs under Strategy theme On-Farm. As per suggestion of the SC-E-THEMES during its meeting on 10 April and on 7 June 2018, a joint session of three WGs is being organised. The Chair suggested WG members to attend the Joint Session meeting of Strategy Theme ‘On-Farm’ in the after-noon session on 15 August 2018.

WG-SON-FARM Minutes Item 8: Organization of 9th International Micro Irrigation Conference, 16-18 January 2019, Aurangabad, India

13. The group noted that the Indian National Committee on Surface Water (INCSW) is organizing the 9th International Micro irrigation Conference (IMIC) from 16-18 January 2019 in Aurangabad, Maharashtra, India on the theme 'Micro Irrigation in Modern Agriculture'. The 9th IMIC will bring interesting and thought-provoking topics and speakers at the conference. Ministry of Water Resources, River Development and Ganga Rejuvenation, Government of India has set up organizing committee, technical and scientific committee and steering committee with representation from ICID for organizing 9MIC.

14. ICID is nominating few members of the WG in the technical and scientific committee which is mandated to finalize technical sessions, list of speakers, keynote speakers, programme etc. The Technical and scientific committee held its first meeting on 15 May 2018 deliberated on sub-themes and slightly modified these to take care of some specific issues. The modified sub-themes of the conference are - (i) Micro Irrigation Design, Innovations and New Techniques for Increased Crop Productivity; (ii) Financing of Micro Irrigation; (iii) Micro Irrigation for Cluster Level Farming and Smallholder Farmers and (iv) O&M Services and Capacity Development for the Micro Irrigation Systems. Abstract can be submitted directly to INCSW by accessing the link <https://imic2019.ivyleaguesystems.com/login/>. The last date for submission of synopsis/ abstract is 30 September 2018. The Chair requested members to provide all the necessary guidance for organizing the above conference and also ensure maximum participation in the technical matters within the stipulated time period.

WG-SON-FARM Minutes Item 9: Any other business

15. PH Saeed Nairizi pointed out the reference of FAO regarding Saving of Water through technology – is a confusing issue and sought the deliberations. The WG decided to send a question to all the members along with publications of Dr Chris Parry and another one that will be sent by PH Nairizi to the Vice Chair and the Chair for obtaining views and further comments from the members. The first question is "Does technology help to save Water?" while the second aspect for seeking comments by PH Nairizi from the members is 'What is the definition of Irrigation Efficiency?'



Annex [Appendix XXIII, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal A: Enable higher crop productivity with less water and energy							
A1.Strategy: Modernizing irrigation systems	1.3 Prepare country overview papers	Papers	Prepare two country overview papers	Prepare one country overview paper	Prepare two country overview papers		
A5.Strategy: Supporting water productivity enhancement	5.1 Prepare how to do thematic documents ready	Technical Document	Prepare one how-to-do document	Prepare one how-to-do document	Prepare one how-to-do document	Prepare one how-to-do document	Prepare one how-to-do document
	5.2 Develop a position paper on key issues on sustainable on-farm irrigation systems	Position paper	Prepare first draft paper	Finalize the position paper	Prepare second draft paper	Finalize the position paper	
Goal C: Facilitate exchange of information, knowledge and technology							
C3.Strategy: Promoting regional cooperation	3.9 Organize international workshop, seminar or symposium	Compilation of proceedings	First internal Workshop	Organization of the 9th International Micro Irrigation Conference (IMIC) in January 2019 at Aurangabad, India	Hosting of 9th International Micro Irrigation Conference (IMIC) in January 2019 at Aurangabad, India	Second workshop	Third workshop
C4. Strategy: Compile, collate and share knowledge and experiences	4.20 Database on sprinkler and micro irrigation in the world	Database	Updating database	Updating database	Updating database	Updating database	Updating database
	4.27 Research article on state of the art for publication in Irrigation and Drainage Journal	Study report	Prepare one article	Publication in Journal	Prepare one article	Publication in Journal	Prepare one article
Goal E: Encourage Research and Support Development of Tools to Extend Innovation into Field Practices							
E2. Strategy: Strengthening Extension Services with AWM information							
E5.Strategy: Compilation of Global Data Sets on Irrigation and Drainage	5.1 Datasets for irrigated area	Database	Updating database	Updating database	Updating database	Updating database	Updating database
	5.2 Datasets for Pressurised Irrigation Systems	Database	Updating database	Updating database	Updating database	Updating database	Updating database

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 11TH MEETING OF THE
WORKING GROUP ON WATER AND CROPS (WG-WATER & CROP)**

15 August 2018, 11:00-12:30 hours
Saskatoon, Saskatchewan, Canada

Strategy Theme: On-Farm

Presented by the Chairman

Year of Establishment: 2007

Completion of the Mandate: 2019

Mandate: To promote the efficient use of water in crop production, to provide input to test crop water models, to investigate the use of energy crops for bio-fuel production, to develop techniques for rainfall harvesting, to promote the multifunctional use of water in paddy (rice) cultivation, to investigate the adaptation of agriculture to climate change and to promote low input agriculture.

Members Present: (1) VPH Dr. Ragab Ragab (UK), Chairman; (2) VPH Laurie C. Tollefson (Canada), Vice-Chairman; (3) Dr. Kaluvai Yella Reddy (India), Secretary; (4) Mrs. Gao Hong (China); (5) Ir. Adang Saf Ahmad (Indonesia); and (6) Prof. Won-Ho Nam (Korea).

Observers: (i) Mr. Syaiful Mahdi (Indonesia); (ii) Dr. Chung-Feng, Ding (Chinese Taipei); (iii) Ir. Haili Wang (China); (iv) Ir. Guohua Zhang (China); (v) Dr. Kazumi Yamaoka (Japan); (vi) Ir. Hakibu M. Tanko (Canada); (vii) Ir. Arif Frank Alfaeay (Indonesia); (viii) Prof. Sylvester Mpandeli (South Africa); (ix) Dr. Madhav Belbase (Nepal); (x) Ir. Su, Mei Yuan (Chinese Taipei); (xi) Ir. Chou Chao Chin (Chinese Taipei); (xii) Mr. Anuj Kanwal (India); (xiii) Mr. R.K. Agarwal (India); (xiv) Ir. Mochammad Amaron (Indonesia); (xv) Mr. Abdul (Indonesia); (xvi) Ir. Narges Zohrabi (Iran); and (xvii) PH Saeed Nairizi (Iran).

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

WG-W&C Minutes Item 1: Action Taken Report by Chair

1. The Chair welcomed the members and briefly presented the action taken report on the decisions and proposals made at its last meeting in Mexico City, Mexico in October 2017.
2. The Chair informed the members that the paper written by his student using the SALTMED has been published in Irrigation and Drainage Journal and received Best Paper Award for the year 2018.
3. The Egyptian National Committee of ICID (ENCID) has nominated Prof Dr. Zeinab Hussien Behairy (Egypt) for the membership of the WG. She was accepted as Provisional member since she was not available at the Canada meetings. Dr. Chung-Feng, Ding (Chinese Taipei) nominated by Chinese Taipei (CTCID) and Dr Kazumi Yamaoka nominated by Japan (JNCID) introduced themselves in the meeting and were accepted as members of the WG. The Membership status is given in **Annex 3 (page 51)**.

WG-W&C Minutes Item 2: Road Map to ICID Vision 2030: Activities on efficient use of water in crop production

4. The Chair discussed and briefed the activities of the WG such as Goals/Strategies, Actions, Outcomes/Outputs, Milestones and assigning Lead Persons as listed in the Annex. He informed the efforts are being made continuously in realising the objectives/milestones.

WG-W&C Minutes Item 3: Multi-functionality of water uses in paddy (Rice) cultivation

5. The Chairman informed that the reports are awaited form South Africa and Italy for completing the Technical Report of the WG. Prof. Sylvester Mpandeli (South Africa), present in the meeting, was requested to obtain the report from Dr. Rensburg in South Africa. The Chair reminded Dr Graziano Ghinassi (Italy), who was available elsewhere, about his commitments towards the submission of the paper for the Technical Report.

WG-W&C Minutes Item 4: Updating Multilingual Technical Dictionary (MTD)

6. Dr. P. Soman (India), Member of WG was not available to apprise on the progress on Updating Multilingual Dictionary (MTD). It was decided to remind and request him for the updates.

WG-W&C Minutes Item 5: International Workshop in August 2018 at Saskatoon, Canada

7. The Chair informed the members that the WG intended to organize an International Workshop titled 'Improving the Water Productivity within the Water Energy Food Nexus' during the Saskatoon, Canada meetings but did not take place since the theme of the workshop was well covered under sub-theme 1: Competing Water Demands' (1.3 *water–food–energy nexus*) of the international conference at Saskatoon, Canada. The workshop on the same theme will now be organized during Third World Irrigation Forum (WIF3) to be held in September 2019 at Bali, Indonesia. It was decided to invite papers from India, Canada, Italy, Japan, China Taipei, South Africa and others.

WG-W&C Minutes Item 6: ICID-IWRA Collaboration

8. The Chair informed that the International Water Resources Association (IWRA) is now looking forward for new collaborations between ICID and IWRA which needs to be worked out for mutual benefit. Vice Chair Laurie Tollefson (Canada) may explore the opportunities.

WG-W&C Minutes Item 7: Publications of the Working Group

9. WG discussed the possibility of publication of selected papers from past International Workshops (2013 and 2015) and the proposed International Workshop on 'Improving the Water Productivity within the Water Energy Food Nexus' to be held during WIF3 at Bali, Indonesia in September 2019 with the support from IWRA. Attempts may also be made to complete the Technical Report of the WG referred to in Item 3.

WG-W&C Minutes Item 8: Disseminate of activities of WG**WG-W&C Minutes Item 8.1: Website of the Group**

10. The Chair informed that the SALTMED software is available on ICID website for anyone to access and use. He requested all the members to send relevant papers and contributions to him for uploading in the website.

WG-W&C Minutes Item 8.2: Web-based Seminar/e-discussions

11. The Chair encouraged the members to use platforms such as e-discussions, web-based seminars on the relevant topics based on the mandate of WG. The Chair requested the members to come forward and develop and conduct the webinars/e-discussions in 2018-19 in the area of their specialization. Dr Reddy was requested to coordinate and report.

WG-W&C Minutes Item 9: Any other business**New Sub- topic 'Water Use and Productivity':**

12. PH Dr Saeed Nairizi (Iran) informed the members that the water requirements of the greenhouse crops are still estimated in a traditional way. In view of the rising competing demands and scarcity of water for agriculture, there is a need to work out actual water requirements for various crops under greenhouse conditions. In view of this, it is proposed to create a new sub-topic 'Water Use and Productivity' under the WG mandate to work out water requirements of different crops under greenhouse conditions. The 'Task Team' responsible for this sub-topic will be composed of: VP Dr K.Yella Reddy, PH Dr Saeed Nairizi, VPH Dr Ragab, and Dr. Chung-Feng, Ding (Chinese Taipei).

13. Further, Mr. Syaiful Mahdi (Indonesia) emphasized on the importance of 'Effective Rainfall' in Crop Water Requirement as part of the rain-fed agricultural water management. The issue was discussed and it was decided to add this sub-topic also to the mandate of the WG. Mr. Syaiful Mahdi will lead the task in cooperation with other members.



Annex [Appendix XXIV, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-WATER & CROPS

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Resolution Lead Person
Goal A: Enable higher crop productivity with less water and energy							
Strategy 5: Supporting water productivity enhancement	5.3 Develop guidelines on efficient use of water in crop production	Guidelines	Outline of guidelines – introduction	Release the first draft guidelines	Finalise the draft guidelines	To publish it	Merge Item 5 and B1. Dr Marco Arcieri (Italy)
Goal B: Be a catalyst for change in policies and practices							
Strategy B1: Supporting Development of Appropriate Policies	1.13 Technical Report on Efficient Use of Water in Crop Production	Report	Prepare the first draft report for discussion	Release the second draft report	Finalise the draft report	To publish it	Dr Marco Arcieri (Italy)
Goal C: Facilitate exchange of information, knowledge and technology							
Strategy C3: Promoting Regional Cooperation	3.2 International Workshop/seminar on 'Improving Water Productivity in the frame work of Water Energy Food Nexus'	Workshop proceedings	Announcement of workshop	Orgnaising Workshop in Canada	Publication of papers in the Special Issue of the Journal		VPH Laurie C Tollefson (Canada)
Goal D: Enable cross disciplinary and inter-sectoral engagement							
Strategy D2: Developing Technical Documents in Non-technical Language	2.2 Crop – Water- Energy Nexus	Technical Report		Workshop		Workshop	Dr K Y Reddy (India)
Goal E: Encourage research and support development of tools to extend innovation into field practices							
Strategy E2: Strengthening Extension Services with AWM information							Dr Nader Heydari (Iran)
Strategy E3: Developing and Promoting Tools of AWM	3.1 Support research and development of modelling tools	Development of suitable Models, Sensors, Tools for field use	Prepare action plan	Draft report on various developments	Consolidation and final report		Dr Ragab Ragab
Goal F: Facility Capacity Development							
Strategy F3: Technical Training of Young Professionals from Member countries	3.9 Training on Crop Water Models Aqua Crop	Conduct Training workshops	Training workshops		Training workshops		All Members are responsible.



**MINUTES OF THE INFORMAL MEETING OF THE
WORKING GROUP ON USE OF NON-CONVENTIONAL WATER
RESOURCES FOR IRRIGATION (WG-NCWRI)**

14 August 2018, 13.30-15.00 hours
Saskatoon, Saskatchewan, Canada

Strategy Theme: On-Farm

Presented by the Chair

Mandate: The new mandate can be seen under Item 1.

Members Present: (1) Dr Anna Tedeschi, Chair (Italy); (2) Dr. Wenyong Wu, Secretary (China); (3) Vice President Hon. Ragab Ragab (UK); (4) Dr. Takanori Nagano (Japan); (5) Dr. Tasuku Kato (Japan); (6) Dr. Seung Heon Lee (Korea).

Observers: (i) Dr. Graziano Ghinassi (Italy); (ii) Dr. Ikuo Yoshinga (Japan); (iii) Dr. Mamoru Watanabe (Japan); (iv) Dr. Vijay K Labhsetwar (India)

WG-NCWRI Minutes Item 1: Introduction of the new Working Group by the Chair

1. Chair Dr. Anna Tedeschi (Italy) welcomed the members and briefed them about the mandate of the new Working Group on Use of Non-Conventional Water Resources for Irrigation (WG-NCWRI) as follows:

New mandate of the WG:

- (a) Exchanging knowledge, experience and data as well as networking on the topic in order to be up-to-date with new developments, methods and approaches.
- (b) Preparing comprehensive reviews and prospects with respect to different aspects of NCWR.
- (c) Producing technical manuals, guidelines or standards with respect to all NCWR including waste water, drainage water and saline/brackish water.
- (d) Organizing international workshops, seminars and meetings on the NCWR topic.
- (e) Producing documents on successful case studies with the new developments with respect to NCWR presented by the members from different countries.
- (f) Enlarging the membership of the WG by encouraging more member countries where the use of non-conventional waters is a common practice for irrigation management.
- (g) Finalizing the publication of a Technical Paper pending from the activities of the WG-PQW.

2. The group discussed and reviewed the nomination of Dr. Muhammad Munir Ahmad (Pakistan), Dr. Mohamed Shaban M. Abu Salama (Egypt), and Dr. Hussein Abdel Halim El Gammal (Egypt). Since the above nominees were not available at Saskatoon meetings, the WG accepted them as Provisional Members. WG is looking forward to the participation of these members in the next event/WebEx and have their contribution to the WG activities. The group noted that the Japanese National Committee nominated Dr. Tasuku Kato in place of Dr. Takanori Nagano for the membership of the working group. Dr. Tasuku Kato attended the meeting and the WG accepted him as member. As Dr. Takanori Nagano was involved in other parallel meetings, it is difficult for him to participate effectively. WG thanked Dr. Nagano for his contributions in the WG activities. Moroccan National Committee (ANAFIDE) had proposed the nomination of Mr. Mohamed Ouhssain however, CV is yet to be received. Membership status is given in **Annex 3 (page 51)**.

3. The National Committee of Greece had expressed an interest in the WG with the candidature of Prof. Nicholas Dercas (Greece) and Dr. Bourazanis Giorgos (Greece). Since, neither Drs. Dercas and Giorgos were available nor Greece is active member of ICID, the WG acknowledged their interest in joining the WG and suggested Drs. Dercas and Giorgos to join ICID as Direct Member (DM) by sending the filled-in application form available on the ICID website and may pursue the NC to initiate joining ICID in due course of time.

WG-NCWRI Minutes Item 2: Road Map to ICID Vision 2030 – Activities on non-conventional water resources for irrigation

4. The group discussed and reviewed the activities as listed in the action plan of Road Map to ICID Vision 2030 (refer **Annex**). During the meeting, two interesting presentations related to the new mandate of the working were made as below:

- “Measurement of soil salinity by hyperspectral reflectance of cotton leaves” by Dr. Takanori Nagano (Japan);

- “Pollution potentials and risks of organic pollutants with reclaimed water irrigation” by Dr. Wenyong Wu (China)

5. The above contributions were in line with the Road Map to ICID Vision 2030 and generated a lot of discussion with fruitful comments.

WG-NCWRI Minutes Item 3: Report of Special Session on ‘Water reuse and water quality management’, Saskatoon 2018, Canada

6. During the meeting, the Chair provided a brief report of the Special Session on “Water reuse and water quality management” organized on 13 August 2018. There were interesting presentations on issues related with monitoring of the pollution discharged to water networks by the industry. However, only one presentation was related with the application of non-conventional water for irrigation. The session included three presentations from two countries viz. Chinese Taipei and Egypt and as follows:

- Application of Resin Capsules in Heavy Metal Monitoring in Irrigation Water - Sheng-Chi Lin (Chinese Taipei);
- Forewarning analysis of the irrigation water quality by linking automatic monitoring system - Chihhao Fan (Chinese Taipei);
- The National Water Quality Monitoring Network In Egypt: Assessment and Rationalization Approach - Eman Ragab (Egypt)

WG-NCWRI Minutes Item 4: Discuss and develop work plan based on new mandate

7. Chair Dr Anna Tedeschi discussed the ‘Six-Year Plan’ of the working group with all the members and proposed that in accordance with the Scoping Document (SD), prepare a state-of-the-art document on the use of non-conventional water for irrigation by each member country of the WG. It was suggested that this should be a preliminary step before the WG can think of writing guidelines for the use of NCWR as reported in the Scoping Document. The document should be a summary of the situation in each member country of the WG and the document length should range between 5-7 pages. Moreover, the Chair also invited members to continue to promote the activities of the WG and promote the expansion of the membership. The Scoping Document for WG-NCWRI will be presented to PCTA for approval.

WG-NCWRI Minutes Item 5: Joint Session of Strategy Theme On-Farm, 15 August 2018, Canada

8. Chair invited members to attend the Joint Session and offer their suggestions. WG wishes to cooperate with other WGs involved in the Joint Session for common goal activities. The chair will report the results of the meeting later.

WG-NCWRI Minutes Item 6: Publication of the erstwhile Working Group

9. Chair informed that the pending publications of the WG have reached the final steps. The following manuscripts were already submitted to ICID Central Office:

- Impact of Tsunami on farmland and the progress of rehabilitation after the Great East Japan Earthquake by Dr. Takanori Nagano (Japan)
- Impact of saline irrigation water on soil conditions and soil properties by Dr. Tedeschi Anna et al. (Italy)

10. It was also informed that the two new contributions were received in July 2018:

- Poor quality water and degraded land for biofuel crops (*Arundo Donax*, L.) by Dr. Tapas K. Biswas (Australia)
- Modelling the use of irrigation as part of a highly saline mine water management strategy in the Vaal Basin, South Africa by Dr. Michael van der Laan, et al. (S.Africa)

11. After seeing the activities of the WG, Dr. van der Laan proposed that the manuscript mentioned above be replaced with the one from Prof. Rensburg. WG thanked Dr. Laan and Dr. Tapas for their contributions and that closed the long-standing situation of the technical report of the WG.

WG-NCWRI Minutes Item 7: Any other business

12. Dr. Nagano informed that he participated in the meeting of TF-MTD. He observed that only a few words are related to the WG-NCWRI and invited the WG members to monitor the situation and add words, if necessary and appropriate. WG thanked Dr. Nagano for his support and suggestions.



Annex [Appendix XXV, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Mileston e for Year 2021
GOAL A: Enable Higher Crop Productivity with Less Water and Energy							
A7. Strategy: Using Wastewater or Poor Quality Water for Irrigation	7.1 Compile best practices for sustainably managing and using non- conventional water resources	Case studies					
	7.2 Contribute to the establishment of national policy for re-use of treated wastewater in irrigation	Position Paper					
	7.3 Participate in research on the development of sewage	Guidelines					

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 3RD MEETING OF
WORKING GROUP ON IRRIGATION DEVELOPMENT AND MANAGEMENT (WG-IDM)**

14 August 2018, 13.30-15.00 hours (Session I) and 15.30-17.00 hours (Session II)
Saskatoon, Saskatchewan, Canada

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2021

Scope: (a) assessment of consumptive use of water for irrigation and resulting water balance at system level ; (b) water demand management according to available resource(s) and system capacity; (c) assessment of water loss in various components of irrigation systems, appraisal of water made available for another use downstream (non-consumptive); (d) ground water development and management for irrigation including conjunctive use of surface and groundwater in irrigation, artificial recharge of aquifers from canals "losses" and "excessive" irrigation; (e) water measuring methods and devices and relevant technology (flow rates and volumes); (f) drivers for and resistances at system level to improve irrigation management; (g) social issues to be considered along with technical and economical ones; (h) management of multi-use hydraulic systems, and interdependence between uses; (i) performance evaluation of irrigation schemes and benchmarking; (j) ways towards economic performance enhancement (cost reduction and efficiency improvement).

Member Present: (1) Ms. Mary Jean Gabriel, Chair (South Africa); (2) Dr. Katsuyuki Shimizu, Secretary (Japan); (3) Dr. Wu Jingwei (China); (4) Dr. Ming-young Jan (Chinese Taipei); (5) Dr. Eman Ragab Mohamed Nofal – Young Professional (Egypt); (6) Dr. Narges Zohrabi (Iran); (7) Ir. Ahmad Bin Darus (Malaysia) represented Ir. Mat Hussin Bin Ghani;

Permanent Observer: (1) Vice President Ian Makin (UK)

Observers: (i) President Hon. Peter Lee (UK); (ii) Dr. Bin Dong (China); (iii) Dr. Elijah A Aderibigbe (Nigeria); (iv) Engr. Muhammad Sani Bala (Nigeria); (v) Dr. Aidan Senzanje (South Africa).

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

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

1. The Chair presented the report on the actions taken on the decisions and proposals of the working group at its last meeting held at Mexico in October 2017.

2. The group reviewed the nominations of Eng. El Sayed El Yamani Ali Sarkees (Egypt) and Dr. (Ms) Eman Ragab Mohamed Nofal – Young Professional (Egypt) and Prof. LB Roy, Direct Member (India) for the membership of the group. After discussion, the group decided that Prof. LB Roy and Eng. El Sayed El Yamani Ali Sarkees be admitted as 'Provisional Member' since they were not present while Dr. Eman Ragab Mohamed Nofal was accepted as Member as she was present. Membership status is given in **Annex 3 (page 51)**.

WG-IDM Minutes Item 2: Road Map to ICID Vision 2030 – Status of activities on irrigation development and management

3. The group reviewed the Road Map to ICID Vision 2030 and assigned certain tasks to its members (refer **Annex**). Chair indicated that two draft documents entitled "Norms and standards of irrigation development" and "Condensed overview of existing documents and practical examples on water balance approach" have been prepared and submitted for review. WG Chair encouraged members to give their input to these documents and to make presentations related to the mandate of the group during Indonesia meeting in consultation with the WG Chair.

WG-IDM Minutes Item 3: Presentation by the working members

4. In consultation with the Chair, a presentation titled "Water Management and Irrigation Development in Iran" was made by Dr. Narges Zohrabi (Iran).

WG-IDM Minutes Item 4: Exchange of information, knowledge & networking – website**WG-IDM Minutes Item 4.1: Website of the WG**

5. The group noticed the updation of the website and WG chair encouraged members to provide interesting articles/ papers/ presentations/ documents related to the mandate of the WG for uploading it on the WG's website http://www.icid.org/wg_idm.html.

WG-IDM Minutes Item 4.2: Webinars/ Web based seminars

6. The group noted the importance of the webinar and agreed that it is a very good platform of knowledge exchange. Chair encouraged members to suggest topics for organization of the webinar.

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

7. Dr. Katsuyuki Shimizu (Japan) had volunteered to the task of updating the terms related to the MTD and had proposed to prepare a draft list of terms related to section (5) Head works; (6) Design of irrigation canals; (7) Canal structures; (8) Project water management; and (17) Operation, maintenance and management. During the meeting, Dr. Shimizu made a presentation on the work that has been done so far. Other members also indicated that they would undertake a similar exercise.

WG-IDM Minutes Item 6: Workshop on water balance approach

8. The group discussed the matter of organization of a workshop during the meeting. Dr. Narges Zohrabi (Iran) announced that 3-day conference on water accounting will be held in Iran in December 2019. This conference will be organized in partnership with the Technical Support Unit of ICID and FAO. She indicated that information on this workshop will be sent to the Chair for circulation to the members by the Central Office.

WG-IDM Minutes Item 7: Any other business

Annex [Appendix XXVI, Item 2]

ROAD MAP TO ICID VISION 2030 – ALLOCATION OF TASKS

Goal/ Strategies	Activities	Outcomes/ Outputs	Responsible person
Goal A: Enable higher crop productivity with less water and energy			
A1. Strategy: Modernizing irrigation systems	1.1 Develop a program for introducing standards for irrigation systems	Standards for Irrigation and Drainage	Dr Ming-Young Jan / Ms M J Gabriel
	1.2 Report or case studies on recent development in Irrigation Drainage Management	Case studies Presented in WG meetings	Dr Narges Zohrabi
A6. Strategy: Improving performance of irrigation systems	6.1 Investigating and providing information on the positive amenities, services and goods provided by irrigation systems (in consultation with WG-ENV)	Technical Report	Dr Shimizu
	6.7 Identify drivers and social resistances within the systems to improve Irrigation management	Report	TBD
Goal B: Be a catalyst for change in policies and practices			
B1.Strategy: Support development of appropriate policies	1.14 Report on South-South cooperation for capacity development in the field of irrigation management	Report	TBD
B3. Strategy: Integrated Irrigation and Drainage Management	3.1 Assess methods and develop guidelines on relevant water balance approach	Guidelines	Mr Ian Makin (to assist)
Goal C: Facilitate exchange of information, knowledge and technology			
C1.Strategy: Providing knowledge sharing platform for AWM professionals	1.3 Organize Workshop, Seminar and Symposium on Water Balance Approach	Proceedings	TBD
C4.Strategy: Compile, Collate and Share Knowledge and Experiences	4.9 Condensed overview of existing documents and practical examples on water balance approach	Technical Report	Ms MJ Gabriel
	4.17 Overview paper on the Irrigation Development for publication in Irrigation and Drainage (IRD)	Technical Paper	TBD
Goal D: Enable Cross Disciplinary and Inter-Sectoral Engagement			
D2. Strategy: Developing Technical Documents in Non-technical Language	2.3 Investigating and documenting the social and economic impacts of irrigation systems	Technical report	TBD
Goal E: Encourage research and support development of tools to extend innovation into field practices			
E6. Strategy: Dissemination of useful research outputs	6.2 Investigate and report on state of research, barriers or locks and promising paths in the field of irrigation management	Technical report	TBD



**MINUTES OF THE 4TH MEETING OF
WORKING GROUP ON INSTITUTIONAL ASPECTS OF
IRRIGATION/ DRAINAGE SYSTEM MANAGEMENT (WG-IOA)**

15 August 2018, 13.30-15.00 hours (Session I) and 15.30-17.00 hours (Session II)
Saskatoon, Saskatchewan, Canada

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2021

Scope: The WG will investigate, analyse and disseminate information and knowledge on following issues: (1) Legal Framework and Organizational Structures of Water User Association for Water Supply Services including- (a) institutional and organisational requirements for sustainable operation and maintenance of irrigation/drainage systems, (b) improvement of organisational arrangements for management, operation and maintenance of irrigation/drainage systems, (c) financing of operation and maintenance of irrigation/drainage schemes, (d) approaches and requirements for water regulatory authorities, land property questions, water rights, and (e) roles, responsibilities and requirements for sustainable Water Users Associations (WUA); (2) Participatory Irrigation Management and Irrigation Management Transfer covering (a) approaches and conditions for successful Participatory Irrigation/Drainage Management (PIDM), and (b) approaches and conditions for successful irrigation/drainage management transfers (IDMT), including legislation and institutional requirements for transfer of responsibilities and/or ownership of irrigation and drainage systems to water users associations; and (3) Public Private Partnership, and Mechanism for Cost Recovery covering (a) possibilities of and requirements for successful Public Private Partnerships (PPP) in irrigation/drainage, and (b) methods and mechanisms for charging of irrigation/drainage services and determination of level of cost recovery.

Members Present: (1) VPH Hafied A. Gany, Chairman (Indonesia); (2) Dr. Kazumi Yamaoka, Vice Chairman (Japan); (3) VPH Ding Kunlun (China); and (4) Dr. Yu-Chuan Chang (Chinese Taipei).

Observers: (i) VPH Chaiwat Prechawit (Thailand); (ii) Ching-Tien Chen (Chinese Taipei); (iii) Chian-Chih Li (Chinese Taipei); (iv) Su, Mei-Yuan (Chinese Taipei); (v) Dr. Narges Zohrabi (Iran); (vi) Mamoru Watanabe (Japan); (vii) Mr. Bashu Dev Lohanee (Nepal); (viii) Surat Thanusin (Thailand); (ix) Mr. Arthon Suttigarn (Thailand); (x) Apiruks Srikoowong (Thailand).

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

1. Chair introduced the meeting and welcomed the members and all the observers. Chair presented the report on the actions taken on the decisions and proposals of the working group at its last meeting held at Mexico in October 2017.
2. Chair reported that WG organized Symposium in Mexico City during the 23rd Congress in October 2017 with the Theme: “Global Review of Institutional Reform in irrigation Sector for Sustainable Agriculture Water Management, including water users’ associations”. The group was informed that draft soft publication of Symposium Papers is currently being prepared by ICID Central Office while waiting for few reviews and paper contribution from Thailand.
3. A paper on the topic of “Global Review of Institutional Reform in the Irrigation Sector for Sustainable Agriculture Water Management, Including Water Users Associations” is under publication through ICID-in the special issue of Irrigation and Drainage Journal by Wiley Publisher.

WG-IOA Minutes Item 2: Road Map to ICID Vision 2030 – Status of activities on institutional and organizational aspects of irrigation

4. The group reviewed the Action Plan for WG-IOA and updated keeping in view the mandate and availability of resources for achieving various activities. The milestones were decided and updated by the WG in the action plan (refer **Annex**). Chair informed that WG was only able to have limited consultation with other working groups so as to avoid duplication of the activities and getting their support to achieve intended outcome/ outputs of the WG, and suggested to continue the review of the action plan during the 5th meeting of IOA in Bali, Indonesia in September 2019.
5. Chair VPH Gany informed that he had submitted a paper for the 8th ARC with the topic “PIM Procedures and Processes under the Small Holding Farming” held in Kathmandu in May 2018. It was reported that coinciding with

the 8th ARC, Chair also contributed a related material on soft publication, as proceeding of the 8th ARC. The paper was also shared with all members of WG-IOA for general information.

WG-IOA Minutes Item 3: Presentation by the working group members

6. The group noted that Mr. Chaiwat Prechawit, Thanar Sutrawattana, Watchara Suiadee, Vipop Teamsuwan from Thailand were expected to present the paper at the IOA Workshop on 12 August 2018 however they could not make presentation due to their late arrival, and hence they made the presentation titled: “Irrigation management and participation in Thailand” during the 4th meeting of WG-IOA. The Chair noted that the paper is quite relevant with the theme of IOA Symposium held in Mexico. So, it was suggested that the country paper from Thailand will be reviewed, edited and compiled together with the Mexico Symposium Papers.

7. Mr. Kazumi Yamaoka, Vice Chairman presented a paper titled “Tropical Perennial Rice farming systems (SALIBU technology) for the 2nd Green Revolution against climate change”. The paper is quite important to support WG in terms of rice planting technology. The chairman therefore suggested to review and edit the paper for supporting the data base of WG and proposed to present with complete full paper during the 70th IEC meeting in Bali in September 2019.

WG-IOA Minutes Item 4: Dissemination of activities of WG – Website of the group

WG-IOA Minutes Item 4.1: Website of the group

8. The group noted that the website of WG-IOA had not been utilized effectively and hence Chairman suggested that the members be actively participate and access the website and upload the appropriate document that would be effectively used by the members of the IOA working group in completing the assignment by 2021 and beyond.

WG-IOA Minutes Item 4.2: Webinar/ Web based seminar

9. Similarly, it was noted that the members of WG had not been actively participating in the effective use of web-based seminar, and hence the chairman requested them to participate in the future Webinar in consultation with other members of WG-IOA.

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

10. Dr Yu Chuang Chang as the member of WG-IOA was assigned to represent the WG-IOA at the TF-MTD. Dr. Chang reported that the updating of MTD is being conducted on regular basis, but the progress is slow. During the meeting, some members suggested to start with the simple terms and make updating while discussing the related material with other members of TF from other WG. Dr. Chang presented the report with example of chapter 11 of irrigation system distribution and updated 148 terms on the popular terms. Chair VPH Dr. Gany suggested to continue the process of updating and plan to make regular updating with the support of other members of the WG through e-mail on regular basis.

WG-IOA Minutes Item 6: International Workshop on “Institutional and Organisational Setup of Irrigation and Drainage Management System”, August 2018, Canada

11. Based on the Mexico Symposium, International Workshop was conducted successfully on 12 August 2018 on the theme “Institutional and Organizational Setup of Irrigation and Drainage Management System” with sub-theme as the focus on institutional and organizational (I&O) setup of irrigation and drainage (I&D) management (O&M) schemes with new I&O development, method and approaches wherein 43 persons participated.

12. **Expected Outputs:** It is expected that the Saskatoon workshop would provide special scrutiny on I&O aspects of I&D operation and management vs size of land holding; level of I&D technology practice, and level of income versus capacity of the farmer to recover sustainable O&M budget & resolving water management problems; capacity to conduct the demanded O&M technology versus institutional capacity to conduct integrated working relationship with the related stakeholders; and I&O Structure versus capacity to sustain the routine implementation of integrated capacity.

13. Fundamental principle for achieving of irrigation management sustainability had been identified with five aspects namely: appropriate number and capacity of human resources; proper institutional and organizational management; appropriate O&M technology; adequate funding; and appropriate legal instruments and sensible enforcement.

14. **The way forward direction:** Need immediate setting of roadmap and implementation for optimize use of irrigation facilities toward sustainable development and eliminating the perpetuating impacts of vicious cycle toward strong rural farmers and integrated relationship with stakeholders.

15. **I&O Database:** For building up a complete I&O database system, the WG-IOA will continue to compile all “Outputs” for supporting the completion of its mandate by 2021, by virtue of: investigate, analyse and disseminate information and knowledge among the issues of IOA such as Legal Framework and Organizational Structures of WUA, PIDM, IDMT, and PPP in irrigation/drainage. It was proposed that members’ participation are highly expected through continuous encouragement.

WG-IOA Minutes Item 7: Any other business

16. The group suggested to organize the workshop based upon the second symposium topics, from the scope of WG i.e. “Participatory Irrigation Management and Management Transfer, Approaches and condition for successful PIDM” during the 70th IEC meeting in Bali in September 2019. The sub-topic covers: (a) approaches and conditions for successful Participatory Irrigation/Drainage Management (PIDM); (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 (c) Institutional and Organizational Aspects of Participatory Irrigation/ Drainage Management – PIDM for Micro Irrigation system.



ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal A: Enable higher crop productivity with less water and energy							
A4. Strategy: Promoting institutional reforms	4.1 Introduce suitable institutional setup	Guidelines		Prepare the first draft report		Finalise the draft report & publication	
A6. Strategy: Improving performance of irrigation systems	6.3 Facilitate policy analysis for improved water governance with a focus on agricultural water management and sustainable rural development.	Technical Paper					
	6.4 Develop generalized legal regulations (guidelines) and implementing changes in the public and private sectors of agriculture and water economies of the countries	Guidelines					
	6.5 Implementing changes in the public and private sectors of agriculture and water economies	Position paper					
A8. Strategy: Encouraging Participatory Management of Irrigation Systems							
Goal C: Facilitate exchange of information, knowledge and technology							
C1. Strategy: Providing knowledge sharing platform for AM professionals	1.7 Organize Workshop, Seminar and Symposium	Compilation of proceedings	Symposium	Symposium	Symposium	Symposium	
C4. Strategy: Compile, collate and share knowledge and experiences	4.10 Condensed overview of existing key books, manuals, guidelines and other relevant publications on the institutional, organizational aspects of	Technical report		Release the first report		Release the second report	Release of final report

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
	irrigation management						
	4.11 Overview paper on the state of the art on the IOA of I&D in Irrigation and Drainage (IRD)	Paper		Preparation of the draft of first paper	Submission of first paper for IRD	Preparation of the draft of second paper	Submission of second paper for IRD
	4.12 Exchange of information and sharing knowledge through case studies on institutional and organizational	Case studies	Exchange of information		Exchange of information		Exchange of information

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 4TH MEETING OF
WORKING GROUP ON MODERNIZATION AND REVITALIZATION OF
IRRIGATION SCHEMES (WG-M&R)**
15 August 2018, 09.00-10.30 hours (Session I) and 11.00-12.30 hours (Session II)
Saskatoon, Saskatchewan, Canada

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2021

Scope of work: To investigate, analyse, disseminate information on new developments and to formulate recommendations with respect to: Planning and preparation for modernization and revitalization of irrigation schemes; Interaction between modernization, revitalization and required operation and maintenance; Cost sharing for modernization, revitalization and required operation and maintenance; Institutional and organizational framework required for modernization, revitalization and operation and maintenance; Methods and techniques of lining of conveyance and distribution canals; Canal control systems with respect to their automation, using internet, mobile communication and remote monitoring in canal operation; Modification to improve communication, operational capacities and flexibility in operation and maintenance of systems; Standardization and codes of practice in irrigation systems.

Members Present: (1) VP Ian Makin, Chair (UK); (2) Dr. Dong Bin, Vice Chair (China); (3) Engr. Muhammad Sani Bala, Secretary (Nigeria); (4) Dr. Chih-Hung Tan (Chinese Taipei); (5) Prof. Dr. Tarek Ahmed El-Samman (Egypt); (6) Dr. Yohei Sato (Japan); (7) Dr. Shinji Fukuda (Japan); (8) Dr. Kwang-Sik Yoon (Korea, Rep. of); (9) Mukhlis Zainol Abidin (Malaysia) represented Mr. Mohd Yazid bin Abdullah; (10) Mr. Jan Potgieter (South Africa); (11) Dr. Brian T Wahlin (USA).

Observers: (1) PH Bart Schultz (Netherlands); (2) PH Peter Lee (UK); (3) VPH Shinsuke Ota (Japan); (4) VPH Dr. Darell D. Zimelman (USA); (5) Mohammad Zainal Fatah (Indonesia); (6) Dyah Perdhani (Indonesia); (7) Yasunori Saiki (Japan); (8) Mitsuo Ishijima (Japan); (9) Hidefumi Murashita (Japan); (10) Tsugihiko Watanabe (Japan); (11) Woohan Ryu (Korea, Rep. of); (12) Engr. Mohammed Ogah Adra (Nigeria); (13) Engr. Bassey Edet Nkposong (Nigeria); (14) Engr. Christy Omeno Oduh (Nigeria); (15) Ms. Mary Jean Gabriel (South Africa).

WG-M&R Minutes Item 1: Action taken report by Chair

1. At the onset, the Chair welcomed all the members and briefed on the latest status on the action point emerging from the minutes of the previous meeting of the WG held at Mexico City in October 2017.
2. The WG reviewed the membership of the group which includes four new nominations viz. Mr. Jan Potgieter (South Africa); Prof. Dr. Tarek Ahmed El-Samman (Egypt); Dr. Chih-Hung Tan (Chinese Taipei); and Dr. Shinji Fukuda (Japan). The group accepted the above nominations as all of them are present at Saskatoon meeting except the nominee from Egypt who was represented due to Visa issue. The Iran National Committee nominated Omid Moridnejaad – as a young professional for the membership of the WG however, the nominee was not present at the meeting and accepted as Provisional Member.
3. The group decided that the existing members not contributing/ participating during more than one year viz. Mr. Vyacheslav Rozhon (Ukraine), Mr. Mehrzad Ehsani (Iran), Mr. Bir Singh Dhami – Young Professional (Nepal), Ms. Meral Cicek (Turkey), Mr. Ali Omran Ali (Iraq), and Mr. Firas Hussain Ali – Young Professional (Iraq) may be contacted and request them to contribute to the activities of the WG or else their membership will be lapsed during 3rd World Irrigation Forum in September 2019. Membership status is given in **Annex 3 (page 51)**.

WG-M&R Minutes Item 2: Road Map to ICID Vision 2030 – Status of activities on modernization and revitalization

4. The WG reviewed the action plan to better align the commitments to the capacity of members of the group to deliver against the proposed work plan (refer **Annex**); resulting in commitments to deliver actions related to **Goal A** – Enable higher crop productivity (*Strategy A1 Modernizing irrigation systems*), **Goal B** – Be a catalyst for change in policies and practices (*Strategy B1 Support to development of appropriate policies*), **Goal C** Facilitate exchange of information, knowledge and technology (*Strategy C1 Providing knowledge sharing platform for AWM professionals*) as summarized below.
5. **A1- Modernizing Irrigation Schemes** – This forms the core of the current WG-M&R program of work. At each meeting of the group, a selection of case studies are presented to showcase aspects of modernization. During the

Saskatoon meeting, five case studies were presented. The case studies are intended to provide the evidence base for the proposed paper on the State of Art on Modernization (output A1.5) contributing to the development of ICID Guidelines on Modernization of Irrigation and Drainage. The state of art paper and guidelines are rearranged to be presented during 3rd World Irrigation Forum in Bali in September 2019. The WG proposes to organize a full-day workshop on Modernization during 3rd WIF to promote further exchange of case studies experiences and to launch the guidelines.

6. **B1 – Support to development of appropriate policies** - In Mexico City, the WG proposed that a joint ICID-FAO position paper on modernization would be prepared with FAO and the WG-M&R for presentation at the World Water Forum 8 (WWF 8) in Brasilia in 2018. The group noted that there was no action taken so the group proposes to reschedule preparation of the position paper for presentation in Sydney in 2020.

7. **C1 - Facilitate exchange of information, knowledge and technology** - Contribution of papers to conference sessions – Chair encouraged members to prepare papers for presentation at the proposed workshop in Bali and for the conference sessions in Bali 2019 and Sydney 2020.

8. During the year 2018, Mr. Herve Plusquellec (USA) proposed the publication of an ICID book on the use of geotextiles in irrigation. Chair WG-M&R had the opportunity to review the earlier draft of the proposed book. Mr. Herve Plusquellec made a presentation on the proposed book during the WG session. Members agreed to review the revised book as and when available (*probably during October/ November 2018*) and to recommend to ICID Central Office to consider publication of the book as an ICID publication.

WG-M&R Minutes Item 3: Report on Modernization irrigation/ drainage for a new Green Revolution

9. Chair informed that the status of the publications already covered under Item 2 of the above minutes.

WG-M&R Minutes Item 4: Preparation of a paper on the status of modernization in countries around the world

10. Already covered under Item 2 of the above minutes.

WG-M&R Minutes Item 5: Exchange of information, knowledge & networking

11. During the meeting, the group discussed the issues related to exchange of information and updating of WG-M&R website. Chair requested members to provide articles/ reports/ documents/ presentations related to the mandate of the activities for its uploading on the website of the WG.

WG-M&R Minutes Item 6: Updating Multilingual Technical Dictionary (MTD)

12. The group discussed and reviewed about updating of MTD. Chair encouraged members to make use of this veritable resources in the course of their work and update the terms related to the activities of the WG. During the meeting, VP Brian Wahlin (USA) has agreed to review the terms of MTD related to canal automation which was accepted by the WG.

WG-M&R Minutes Item 7: Workshops by WG in 2018, Canada and 2019, Bali, Indonesia

13. Chair informed that no action was taken to organize a workshop on modernization during the Saskatoon International Meeting however, the WG-M&R meeting was structured to cover the administrative business of the group in about 30 minutes to enable to make presentation of 5 case studies by the participants. The case studies will form part of the knowledge base to support the state of art review and guidelines to be presented during 3rd World Irrigation Forum (WIF) in Bali in September 2019.

14. The group proposed to organize a full-day workshop at 3rd WIF to enable exchange of experiences and discussion of the state of art paper and guidelines on modernization. Regular WebEx meeting also proposed during 2018/19 to coordinate the preparation of background documents and implementation of the workshop.

WG-M&R Minutes Item 8: Any other business



Annex [Appendix XXVIII, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

Goals/ Strategies	Activities	Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal A: Enable higher crop productivity with less water and energy							
A1. Strategy: Modernizing irrigation systems	1.4 Preparation and presentation of Case studies	Compilation of Case Studies	6 Case Studies	5 case studies presented	TBD Case Studies	TBD Case Studies	
	1.5 Prepare an overview paper on State of the Art on Modernization of Irrigation Systems	State of the Art Paper		State of the Art Paper	State of the Art Paper re- arranged		
	1.6 Develop Guidelines for Modernization of Irrigation systems	Guidelines (This to be reviewed and possibly revised in Mexico 2017)			Release Guidelines in WIF3		
A2. Strategy: Improving O&M of Irrigation Systems	2.1 Advocacy paper to draw attention to the needs of adequate resources for O&M	Advocacy paper					
	2.2 Develop norms of O&M of Irrigation systems	Technical Report					
Goal B: Be a catalyst for change in policies and practices							
B1. Strategy: Supporting development of appropriate policies	1.9 Prepare position Paper on Key Issues on Modernization of Irrigation Schemes	Position/Policy Paper of ICID				Release in Sydney in 2020	
Goal C: Facilitate exchange of information, knowledge and technology							
C1. Strategy: Providing knowledge sharing platform for AWM professionals	1.5 Organize Workshops, Seminar and Symposium on modernization	Compilation of proceedings	Main Theme of Congress, Inputs to Congress		Full-day workshop on modernization	Conference Session in Sydney in 2020	
Goal F: Facilitate capacity development							
F4. Strategy: Developing and sharing AWM knowledge	4.4 Condensed overview of Key books, manuals and Guidelines	Book Overview					

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 5TH MEETING OF THE
WORKING GROUP ON SUSTAINABLE DRAINAGE (WG-SDRG)**

15 August 2018, 09.00-10.30 hours (Session I) and 11.00-12.30 hours (Session II)
Saskatoon, Saskatchewan, Canada

Strategy Theme: Scheme

Presented by the Chair

Year of Establishment: 2013

Completion of the Mandate: 2019

Mandate: (a) To promote drainage as part of integrated water resources management; and (b) To promote sustainable approaches for drainage and related projects through a balanced integration of (i) environmental, (ii) economic, and (iii) social and cultural aspects. The WG will work on – (a) Soil management and (integrated) water (resources) management; (b) Traditional and wise drainage management including (i) dry drainage and bio drainage, (ii) arid and semi-arid zones v/s rain fed zones, and (iii) controlled drainage and regulated drainage; (c) Operation and maintenance; (d) Promotion of multi-stakeholders approaches; (e) Reuse and multiple uses; (f) Promotion of risk assessment under global change, and (g) Assessment of drainage needs.

Members Present: (1) Mr. Bernard Vincent, Chairman (France); (2) Dr. Momon Sodik Imanudin, Vice Chairman (Indonesia); (3) Ms. Helena Aijo (Finland); (4) Dr. Gurbachan Singh (India); (5) Mr. Ardavan Azari (Iran); (6) Dr. (Ms.) Naoko Koshiyama (Japan); (7) Engr. Mohd Anuar Musardar bin Yusoff (Malaysia); (8) Dr. Henk Ritzema (Netherlands); (9) Dr. Yuri Yanko (Russia) represented by VP Irene Bondarik; (10) Prof. Aidan Senzanje (South Africa).

Observers: (i) PH Bart Schultz (The Netherlands); (ii) Hannes Puu (Estonia); (iii) Engr. Amali Abraham Amali (Nigeria); (iv) Mazhayskiv Yury (Russia); (v) Chris Hay (USA).

WG-SDRG Minutes Item 1: Action taken report by the Chair

1. Chair welcomed all the members and briefed on the latest status on the action point emerging from the minutes of the previous meeting of the WG held at Mexico City in October 2017.

2. WG reviewed the membership of the group which includes four new nominations viz. Prof. LB Roy – Direct Member (India); Eng. Mohamed Saleh El-Basyony (Egypt); Eng. Maiada Mohamed Anwar (Egypt); Eng. Dina Mahmoud Mohamed Ali - Young Professional (Egypt) and the same were accepted as Provisional Member. Dr. Hajime Tanji (Japan); Mr. Raed Abbood Awad (Iraq); Mr. Amjed Mohammed Abbas - Young Professional (Iraq); Eng. Mohamed Fawzy Mohamed Mahmoud (Egypt) neither attended the meeting nor contributed to the activities of the group during more than one year so the group suggested to invite new nominations from the respective NCs. Membership status is given in **Annex 3 (page 51)**.

WG-SDRG Minutes Item 2: Road Map to ICID Vision 2030 – Status of activities on sustainable drainage

3. During the meeting, the group reviewed the activities on sustainable drainage as part of Road Map to ICID Vision 2030 and updated it (refer **Annex**). The group noted that the roadmap and the rolling plan of the WG are in a good way of achievement however, it was felt that the following points will be hard to reach as data are rarely available.

- (a) Promotion of multi-stakeholders approaches,
- (b) Promotion of risk assessment under global change,
- (c) Assessment of drainage needs,
- (d) Reuse and multiple uses.

WG-SDRG Minutes Item 3: Compilation of experiences in bio-drainage and bio-saline agriculture

4. During the meeting, the group noted that the document titled “Bio-drainage for Management of Waterlogging and Soil Salinity” authored by Dr Gurbachan Singh (India) is available at http://www.icid.org/report_bmw_n_ss.pdf for download.

WG-SDRG Minutes Item 4: Updating database on ‘Drained area in the world’

5. The group discussed and noted that the updated database of drainage area is available at <http://www.icid.org/world-drained-area.pdf>. Chair encouraged members to provide the latest information in respect of their countries every year regularly.

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

6. During the meeting, the group discussed the updation of terms related to chapters of MTD however, it was noticed that members never shown willingness to participate in the above job. Chair will do the job in consultation with the ICID Central Office.

WG-SDRG Minutes Item 6: Dissemination of activities of WG

7. The group noted that the website of the WG http://www.icid.org/wg_sdg.html was fully updated with new membership list, agenda, minutes, events, etc. Chair encouraged members to provide interesting articles/ papers/ presentations/ documents related to the activities of the group for uploading on the website.

WG-SDRG Minutes Item 7: Organization of 14th International Drainage Workshop, 2020

8. At Saskatoon meeting, the group discussed about the organization of 14th International Drainage Workshop (IDW) and noted that the National Committee of Georgia had shown their interest for organizing the 14th IDW. During the meeting, representative from Russian National Committee explained that the Georgian proposal is on hold due to local re-organisation.

9. After discussion, Chair suggested some of the options, all at the stage of proposal and with no formal involvement of NC's viz.

- (a) 14th IDW should be in 2020 as another world wide event. IDS being organized by ASABE ad CIGR will be in 2021 and it is proposed to combine both the events in one to avoid the risk of over competition since the drainage community is not able to feed both event at a short step of time. Chris Hay from IOWA Soy Bean Association and representing the IDS organizing committee had a good agreement with the idea of joining both the events. WG-SDRG agreed with the above proposal and to go ahead further in this direction.
- (b) In China, namely Wuhan University and the National State Key Laboratory could be keen to welcome the event with considerable advantage of the huge capacity of Wuhan University to organize. Furthermore, WHU carries out researches on green infrastructures v/s surface water quality, with very similar tools and objectives that have in Europe and northern America, and Government of PR of China promotes improvement of water quality in rural communities and enhances nature-based solutions. The climatic conditions are favorable in China, but there is still need for some clarification as the representative from WHU, China was not present and CNCID is not yet aware of the project.
- (c) France could be a possibility, but the political context is difficult, and support would be difficult to find. For the moment, the chair does not have sufficient credentials to formally propose this solution.

10. After discussion with the members, the group suggested to enhance the solution of the organizing as join event.

WG-SDRG Minutes Item 8: Workshop by WG in August 2018, Canada

11. The group organized a Workshop on “Dry Drainage and Bioreactors or Green Infrastructures” on 12 August 2018 in Canada. In total, nine papers were received for the workshop that inspired the debate of the WG.

12. It was noted that drainage, at least in Europe, is taxed with all the evils, bringing pollution by nitrates and pesticides and increasing the floods. In arid zones, it is fought to be antagonist with water saving programs and numbers of irrigation funding plans dangerously pass drainage under silence. As contrary, in North America, it vehicles an acceptable image when promoted as drainage Water Management. However, well-designed, well-managed, well used drainage is a powerful regulator runoff, can store water in the soil, to ultimately allow regulation of agricultural surface water quality and quantity. Combined with an adapted irrigation design, drainage is the essential tool for managing soil salinity, alkalinity or acidification and, therefore, the sustainability of irrigated agriculture.

13. The workshops address the techniques to design or manage drainage for improving water quality, controlling quantities of water, preserving the soil quality (controlled drainage, constructed wetlands, bioreactors, green infrastructures). Papers related to traditional techniques (Dry drainage for instance) are also well encouraged. The subject may be linked to design criteria, law and policies, sociologic approaches for implementation, case studies, any situation in which drainage carries with it the genes of the self-compensation of the agriculture it supports.

14. The list of presentations made by the authors during the workshop as follows -

- (a) Artificial Wetlands in Khuzestan, Iran: Problems and Solutions (Ardavan Azari Yekom Consulting Engineers, Iran)
- (b) Peat Subsidence Due to Drainage in the Paddy Field Zone in Hokkaido (Japan Naoko Koshiyama, Civil Engineering Research Institute for Cold Region, Sapporo, Japan)
- (c) Methods to Improve the Function of Controlled Drainage and Sub-irrigation (Seija Virtanen, Finish drainage foundation, Finland)
- (d) Water Gate Valve in Controlled Drainage (Helena Aijö, Finish drainage constructor's association)
- (e) Experience with Controlled Drainage and Water Table Management in Eastern Canada (Chandra A. Madramootoo, McGill university, Canada)
- (f) Control Drainage for Fire Prevention in Peatland Areas in South Sumatera, Indonesia (Momon Sodik Imanudin, Faculty of Agriculture, Sriwijaya University, Indonesia)
- (g) Green infrastructures V/S Drainage Water Quality (Bernard Vincent, France)
- (h) Yield Benefits of Drainage Water Recycling in Iowa and Indiana (Chris Hay, Iowa soybean Association, USA)
- (i) The Need for a Safe Outlet for Drainage in Irrigated Agriculture: Comparison of the Nile and Indus Basins (Henk Ritzema, Wageninigen University, The Netherlands)

WG-SDRG Minutes Item 9: Any other business



Annex [Appendix XXIX, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORK BODIES

Goals/ Strategies	Activities	Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal C: Facilitate exchange of information, knowledge and technology							
C4. Strategy: Compile, collate and share knowledge and experiences	4.23 Collection and compilation of drainage irrigation data	Database	Updating database	Updating database	Updating database		
Goal E: Encourage Research and Support Development of Tools to Extend Innovation into Field Practices							
E5. Strategy: Compilation of Global Data Sets on Irrigation and Drainage	5.3 Datasets for Drainage Area						

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 3RD MEETING OF
WORKING GROUP ON WATER SAVING IN IRRIGATED AREAS (WG-WATS)**

15 August 2018, 09.00-10.30 hours (Session I) and 11.00-12.30 hours (Session II)
Saskatoon, Saskatchewan, Canada

Strategy Theme: Schemes

Presented by the Chair

Year of Establishment: 2015

Completion of the Mandate: 2021

Scope: (a) water accounting and irrigation auditing (and other ancillary uses); (b) irrigation water measuring devices; (c) assessment of water loss in various components of irrigation systems; (d) various methods and techniques used for water saving in irrigation; (e) policies and strategies for irrigation water saving; (f) charging for Irrigation Services; (g) success stories and best management practices in water saving; (h) tools and processes applied in irrigation water saving; (i) outreach of water saving technologies; and (j) WatSave Awards.

Members Present: (1) Mr. Mortaza Yazdekhashti (Iran) represented Mr. Mehrzad Ehsani; (2) Ms. Jianxin Mu (China); (3) Dr. Marco Arcieri (Italy) represented Prof. Michele Perniola; (4) Prof. (Ms) Kyung-Sook Choi (Korea, Rep. of); (5) VPH Dr. G Backeberg (South Africa) represented Dr. Joe Stevens.

Observers: (1) Dr. Ray-Shyan Wu (Chinese Taipei); (2) Dr. Sahdev Singh (India); (3) Hassan Farahani (Iran); (4) Narges Zohrabi (Iran); (5) Dr. Mochammad Amron (Indonesia); (6) Dr. Tasuku Kato (Japan).

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

1. In absence of Chair Mehrzad Ehsani, Mr. Mortaza Yazdekhashti, Secretary conducted the meeting as 'Acting Chair' and presented the actions taken on the proposals of the working group held at its last meeting at Mexico City in October 2017. After discussion, the group decided to have at least two webinars during the year.
2. The group reviewed the nomination of Dr. Tasuku Kato (Japan) who was present and made a brief introduction about himself during the meeting, the WG accepted the membership of Dr. Kato. Since the ICID Central Office received the nomination of Dr. Ray Shyan Wu from the Chinese Taipei Committee (CTCID), the group accepted the membership of Dr. Ray Shyan Wu who was also present during the meeting. However, both Eng. (Ms) Hala Ramadan El-Sayed Ismail (Egypt) and Dr. Mohamed El-Hagarey (Egypt) were not present at the meeting and hence, the group decided to accept them as Provisional Member. The group also suggested ICID Central Office to approach the National Committees of India and Iraq and request them to propose new nomination in place of Mr. Kamal Kumar Jangid and Mr. Dhuha Mahmood Hussein.

WG-WATS Minutes Item 2: Road Map to ICID Vision 2030 - Status of activities on water saving in irrigated areas

3. The group reviewed the Road Map to ICID Vision 2030 and identified some initial ideas and deliverable for the WG (refer **Annex**). Some brief updates on those actions suggested as follows:
 - (a) **Goal A: Activity 3.2 – Best practices and successful story on water saving:** As part of wider sharing of information, Egyptian National Committee (ENCID) came out with a book on "Water Saving in Irrigated Agriculture in Egypt – case studies and lessons learned" jointly authored by Mohamad Hassan Amer, Seyed Ahmed Abd El-Hafez and Mohamed Bakr Abdel Ghani. WG appreciated the efforts and recommended that a copy of the book may be shared to members by the ICID Central Office and the authors may present the book in the next meeting in Indonesia in September 2019.
 - (b) **Goal B: Activity 1.4- Policy and legal approaches to water saving:** The group noted that the questionnaire was circulated and was finalized subsequently incorporating comments received from the members. WG suggested that Ms. Mu Jianxin (China) may send the final filled-in questionnaire to ICID Central Office for further circulation to all NCs.
 - (c) **Goal B: Activity 1.5- Water Charging Policies:** The Chair briefed the group and thanked all the NCs who have responded to the draft framework however, the group felt that response is not enough (at least information from 15 countries is still needed) to prepare the final report. After discussion, WG decided to follow up with the remaining National Committees through ICID Central Office to receive such information to bring out a report which can be used as a reference.

- (d) **Goal B: Activity 1.11- State of the art on water saving:** At Mexico, the WG decided to prepare an overview paper on the above subject highlighting the most recent research and newest ideas and submit it for publishing in ICID Journal on Irrigation and Drainage. Dr. Joe Stevens and VPH Dr. Gerhard Backeberg finalized the draft framework and sent it to all members for their inputs and contributions before submitting it for publishing in the Journal. Due to poor response from members, it was suggested that only the South African situation and experience may be submitted.
- (e) **Goal C: Activity 4.8 – Condensed overview of existing key books, manuals, guidelines and other relevant publications on water saving:** The group noted large amount of information and knowledge is available on this area so the WG decided that newest and recent books on water saving in irrigated areas be uploaded or the links may be sent to the ICID Central Office for uploading on the website of WG. Mr. Mortaza Yazdekhashti (Iran) volunteered to coordinate and take up the task.

WG-WATS Minutes Item 3: Presentation by the WatSave Award winner(s)

4. The winners of WatSave Awards 2018 were absent, so no presentation was made. After discussion, the WG recommended that a webinar may be arranged by the ICID Central Office, and request the winners to present their contributions.

WG-WATS Minutes Item 4: Dissemination of activities of WG – Website of the group

5. During the meeting, the website of the WG was opened on the screen and displayed before the members. However, it was noted that Chair was not able to update the website so it was suggested that Mr. Mortaza Yazdekhashti will be responsible to solve the problem in consultation with the ICID Central Office and regularly update it with all the reports/ documents sent by the Chair and other WG members.

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

6. The WG discussed about the updating of MTD at Canada meeting and after discussion, it was proposed that the Chair will follow-up with the ICID Central Office to receive the list of the terms to be updated and submit the outputs to the Central Office. The group proposed Prof (Ms.) Kyung–Sook Choi (Korea) as in charge of updating MTD terms related to the WG.

WG-WATS Minutes Item 6: Any other business

7. The group noted that due to Canada Visa procedure many members from India, Egypt, Turkey, Iraq, Mali, Pakistan, and Iran were not able to attend the meeting. It was felt that bigger delegations from countries all around the world may participate in the next year in Bali in September 2019.



Annex [Appendix XXX, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WORKBODIES

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal A: Enable higher crop productivity with less water and energy							
A3. Strategy: Improving water saving techniques and technologies	3.1 Support Watsave award winner selection	Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards	Presenting Annual Watsave Awards
	3.2 Best Practices and Successful Story on Water Saving	Documents	Workshop on Watsave awards	Announcing annually for watsave awards and selecting successful stories	Announcing annually for watsave awards and selecting successful stories	Announcing annually for watsave awards and selecting successful stories	Setting up 10 years respective work as the documents and release by CO (2010 -2020)
Goal B: Be a catalyst for change in policies and practices							
B1. Strategies: Supporting development of appropriate policies	1.3 Disseminate the water saving award technologies	Workshop proceedings					
	1.4 Policy and legal approaches to Water Saving	Policies/ Document	Breakdown the works in the WG	-Workshop -Designing and preparing questionnaire to collect data	Collecting and reviewing relevant laws and regulations from NC	Providing first draft	Finalize the book on policies and strategies drives on water saving
	1.5 Water Charging policies	Position paper	Define responsibility in WG	Designing Standard questionnaire	Reviewing Water Charging procedure on NC	Providing first paper	Final Paper
	1.11 State of the art on water saving	Journal Paper		Preparation of the draft of first paper	Submission of first paper for IRD	Preparation of the draft of second paper	Submission of second paper for IRD
Goal C: Facilitate exchange of information, knowledge and technology							
C1. Strategies: Providing knowledge sharing platform for AWM professionals	1.1 Organize Workshop, Seminar and Symposium	Compilation of proceedings	Seminar/ Symposium on Water Saving	Workshop			Workshop
C4. Strategy: Compile, collate and share knowledge and experiences	4.8 Condensed overview of existing key books, manuals, guidelines and other relevant publications on water saving	Technical report		Release the first report		Release the second report	Release of third report

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**MINUTES OF THE 5TH MEETING OF THE
SUB-COMMITTEE ON THEMES, TOPICS AND WORK PLANS OF
FUTURE ICID EVENTS (SC-E-THEMES)**

12 August 2018: 13.30-15.00 Hours
Saskatoon, Saskatchewan, Canada

Terms of Reference (ToR): (i) To deliberate and recommend the Themes, sub-themes of World Irrigation Forums and Theme and Questions of future Congresses, (ii) To set out format and technical contents of the Congress and WIFs, (iii) To review the technical outputs and outcomes and suggest follow ups, (iv) To work out the structure of meetings related to IEC, particularly the WGs at the ICID's Annual Events, to make them more effective and (v) To draw Guidelines to make the WG meetings/sessions technically richer and beneficial to the stakeholders and industries by exploring the ways of combining the meetings of workbodies with areas of common interest or holding webinars, etc.

Members Present: (1) PH Dr. Gao Zhanyi, Chair (China, 2017); (2) VPH Dr. Ding Kunlun, Chair, PCTA (China, 2017); (3) VPH Mr. Franklin E. Dimick, Chair, WG-MWSCD (USA, 2017); (4) VP Mr. Ian W. Makin, Chair, WG-M&R (UK, 2017); (5) VPH Dr. Ragab Ragab, Member, ITAC-WIF2 (UK, 2017); (6) VPH Bong Hoon Lee, Member, ITAC-23rd ICID Congress (Korea, 2017) and (7) Er. Ashwin B. Pandya, Secretary General, ICID.

Observer: Dr. Macro Arcieri (Italy).

Sub-Committee Minutes Item 1: ATR on the Minutes of the 4th Meeting of the Sub-Committee

1. An Action Taken Report on the minutes of the 4th meeting of Sub-Committee was discussed. All members present agreed to keep monitoring the outputs of Congress Questions and improving the quality of papers. It was suggested that the abstracts of papers should include introduction and conclusion of the papers so as to evaluate papers more effectively.

Sub-Committee Minutes Item 2: To review the membership of the Sub-Committee

2. As per the Notification No.15 of 2017 dated 24 November 2017, re-constituting the SC-E-THEMES, following the decision of 68th IEC meeting at Mexico City on 14 October 2017, the Sub-Committee shall consist of members as follows:

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

3. The members of SC-E-Themes accepted the above the constitution of the Sub-Committee.

4. Accordingly, SC-E-Themes confirmed that the membership of VPH Dr. Ragab Ragab, Member, ITAC-WIF2 (UK) is replaced with Dr. K. Yella Reddy, Vice President, ICID who is a member of ITAC for WIF3

Sub-Committee Minutes Item 3: To work out the structure of meetings related to IEC, particularly the WGs at the ICID's Annual Events, to make them more effective

5. The Sub-Committee deliberated on the additional mandated tasks as per Resolution IEC-2/68 of 68th Council meeting, to work out the structure of the meetings related to IEC, particularly the WGs during ICID's annual events in order to make them more effective, at its first virtual meeting on 30 January 2018, and adopted the following recommendations:

- (a) Organise online WebEx meetings prior to the main physical meeting to take care of all routine matters such as attendance, membership issues, publications etc.

- (b) Organise shortened separate physical (face to face) meetings of the WGs for 90 minutes each in place of earlier 180 minutes.
- (c) Organising a series of internal workshops (90 minutes) on the specific items related to the mandate of the working group and combining the outcome of these workshops to produce WG output/Report/Document as appropriate.
- (d) Assign the time bound specific tasks emerging from the mandate of the WG to the members for effective results.
- (e) Restructure the Plenary Session of IEC to allow the chairs/WGs to disseminate the work of their WGs to all stakeholders.

6. The Chair will present these recommendations as part of the Committee's report to PCTA and PCSO for their consideration and appropriate recommendations.

Sub-Committee Minutes Item 4: To draw Guidelines to make the WG meetings/sessions technically richer and beneficial to the stakeholders and industries by exploring the ways of combining the meetings of workbodies with areas of common interest or holding webinars, etc. – To finalize the recommendations

7. The Sub-Committee considered the mandate (v) as listed in the agenda item 4 at its virtual meeting held on 30 January 2018, and made the following recommendations, while exploring ways of combining the meetings of workbodies with areas of common interest and drawing guidelines for making the sessions technically richer and beneficial to the stakeholders and participating industries:

- (a) Organize combined meetings of the WGs for the duration of time saved from shortening the separate WG meetings, say of 180 minutes. This combined meeting could be in the shape of workshop/seminar/panel discussion on the common issues emerging from the mandate of the concerned WGs.
- (b) While ICID has four strategy themes i.e. Basin, Knowledge, On-farm and Schemes; 'On-farm' has only three WGs; namely, WG-PQW, WG-SON-FARM and WG-WATER & CROP; which can perhaps come together in 2018 on trial basis to understand the actual working of the concept and the benefits thereof.
- (c) Webinars (on-line) on the topics/areas of common interest of the concerned WGs could be held during the year.
- (d) A lot of on-line coordination prior to the annual meetings among the Chairs/members would be prerequisite for successful combined meetings (workshop/seminar/panel discussion) at the time of IEC.
- (e) In order to take final decision on the combined meeting of the WGs for strategy theme 'On-Farm', WG Chair of respective WGs may also be invited to join next meeting.

8. At the second virtual meeting held on 10 April 2018 in which the Chairs of workbodies under Strategy Theme – On-Farm as well as the Co-Theme Leaders for ST-ON-FARM were invited to join in order to consider their views, prior to making the recommendations about the idea of combined meeting should be pilot tested during the 69th IEC meeting in Canada meeting in August 2018. The Sub-Committee cautioned that this will need more homework before the meeting to make the idea successful. After the deliberations, the following decisions were taken:

- (a) Strategy theme leaders should guide and coordinate development of modalities of conducting meeting and agenda for the combined meeting of the three WGs (WG-PQW, WG-SON-FARM and WG-WATER & CROP) under the Strategy Theme ON-FARM.
- (b) A web-ex meeting may be organised among Strategy Theme Leaders and WG- Chair, Vice Chair, Secretary with the support of ICID CO to discuss modalities of organising such combined meeting, development of common agenda to channelize commonalities. Strategy theme leaders will indicate tentative date for web-ex meeting for undertaking doodle poll to arrive at most convenient date and time for the web-ex meeting.
- (c) Based on the outcome and suggestions emerging from the web-ex meeting of the theme, ICID CO with the help of Theme Leaders would develop common agenda for the combined meeting of the WGs under the theme.

9. As a follow up of the above decisions, a virtual meeting of the Co-Theme Leaders of ST-ON-FARM and the Chairs, Vice Chairs and Secretaries of the workbodies under ST-ON-FARM was organized on 7 June 2018 to discuss the modalities for holding a combined meeting, development of common agenda, etc.

10. A Joint Session of the WB under the ST-ON-FARM will be organized on 15 August 2018 on a trial basis, with an aim to make the meetings more-lively, reduce number of parallel events in turn increasing the participation of members in the meetings and reducing duration of the ICID events, if possible.

11. The Joint Session will consider a common Agenda for the combined meeting of three Working Groups i.e. Water and Crops (WG-WATER & CROPS); Sustainable On-Farm Irrigation System Development (WG-SON-FARM); and Use of Non-Conventional Water Resources for Irrigation (WG-NCWRI), where members of these WBs and Co-Theme Leaders of ST-ON-FARM will attend.

12. The Committee will be apprised about the outcome of the meeting and how much practical it would be in real terms, while presenting the report of the Committee at PCTA meeting for its consideration and making appropriate recommendations to the Council meeting.

Sub-Committee Minutes Item 5: To consider the Report of ITAC for WIF3, Bali, Indonesia, 2019

13. The Management Board in its sixth meeting (6/17) held on 22 November 2017 approved the constitution of an International Technical Advisory Committee (ITAC) for the 3rd World Irrigation Forum (WIF3) to be held at Bali, Indonesia during September 2019. Vide Notification No. 11 of 2018, dated 11 March 2018. Accordingly, the ITAC for WIF3 was constituted under the Chairmanship of PH Dr. Gao Zhanyi. The first virtual meeting of ITAC for WIF3 was held on 28 June 2018. PH Dr. Gao Zhanyi, Chair, ITAC for WIF3, presented the report on the technical aspects of WIF3 at the Sub-Committee for its consideration and suggestions.

Sub-Committee Minutes Item 6: Theme and Topics for 25th ICID Congress, 2023

14. The venue for the 25th ICID Congress is yet to be fixed; however, the Sub-Committee may consider suggesting topics for Theme and Questions for the Congress. The list of topics for Themes and Questions covered/decided up to 24th ICID Congresses can be accessed or downloaded from http://www.icid.org/congress_topics.pdf.

15. Accordingly, the Sub-Committee recommended the following topics for the Theme and Questions 64 and 65 for the 25th ICID Congress in 2023 to PCTA for its consideration and appropriate recommendation to the Council:

Theme: Tackling Water Scarcity in Agriculture

Question 64: What alternative water resources could be tapped for irrigated agriculture?

Question 65: Which on-farm techniques can increase water productivity?

Sub-Committee Minutes Item 7: Theme and Sub-Themes for 4th World Irrigation Forum, 2022

16. The Committee noted that the venue for the 4th World Irrigation Forum is yet to be fixed; however, decided to discuss the Themes and Sub-Themes for WIF4 through virtual meetings and correspondence by 69th IEC meeting. The list of topics for Themes and Sub-Themes covered/decided upto WIF3, together with the Themes for World Water Forums (WWFs) up to 8th WWF can be accessed or downloaded from http://www.icid.org/wwf-wif_topics.pdf. The Central Office will facilitate the development of proposal for the Theme and Sub-Themes.

17. The Sub-Committee suggested the following topics for the Theme and Sub-Themes for WIF4 in 2022 for PCTA's consideration and recommendation thereon:

Theme: Modernization of Irrigation and Drainage Schemes

Sub-Theme 1. Organization, policy and strategy for modernization of irrigation and drainage schemes

Sub-Theme 2. Technology for modernization of irrigation and drainage schemes

Sub-Theme 3. Investment, cost and benefit of modernization of irrigation and drainage schemes

Sub-Theme 4. Performance assessment of irrigation and drainage schemes

Sub-Committee Minutes Item 8: A Review of the Technical Outputs of 23rd Congress Questions

18. The Sub-Committee deliberated upon the outcome of the 23rd ICID Congress and recommended that the paper quality be improved.

19. The Sub-Committee suggested that the abstracts of papers should include introduction and conclusion of the papers so as to evaluate papers more effectively which will result into the improvement of the paper quality.

Sub-Committee Minutes Item 9: Any Other Business



**MINUTES OF THE 3RD MEETING OF THE
INTERNATIONAL RESEARCH PROGRAM FOR
IRRIGATION AND DRAINAGE: ADVISORY COMMITTEE (AC-IRPID)**

12 August 2018, 09.00-10.30 hours (Session-I)
Saskatoon, Saskatchewan, Canada

Presented by the Chairman

Members Present: (1) VPH Dr. Ding Kunlun, Chair (China); (2) Dr. Narges Zohrabi, Head, IRPID-IRN (Iran); (3) Ms. Gao Hong, Vice Secretary, CNCID & Representative of Beijing Regional Node of IRPID (China) represented by Ms. Li Rouxi; (4) Mr. Olcay Unver, FAO represented by Mr. Ruhiza Jean Boroto; and (5) Mr. Ashwin B. Pandya, Secretary General, ICID represented by Mr. Harish K. Varma, Executive Director, ICID..

Terms of Reference (ToR):

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

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

Observers: (i) Mr. Bahkroni Goforzoda (Tajikistan); (ii) Dilshod Kimsonov (Tajikistan); (iii) Mr. Sahar Naouzi (Iran); (iv) Mr. Hassan Farahani (Iran); (v) PH Dr. Saeed Nairizi (Iran); (vi) VPH Bong Hoon Lee (Korea); (vii) Mr. Jeonyong Ryu (Korea); (viii) Mr. Raecheong Jo (Korea); (ix) Mr. Jang Jungseok (Korea); (x) Ryu Woohan (Korea); (xi) Mr. Gao Lihui (China); (xii) Ms. Lydia S. Esguerra (Philippines); (xiii) Mr. Wilfredo C. Gloria (Philippines); (xiv) Mr. Florenfiao R. David (Philippines); (xv) Ms. Lyn Grace B. Cansing (Philippines) and (xvi) Ms. Annel A. Gabonada (Philippines).

AC-IRPID Minutes Item 1: Brief introduction by SG, ICID

1. On behalf of SG, ICID, Executive Director H. K. Varma made a brief introduction and overview on the IRPID Scheme to the Committee members.

AC-IRPID Minutes Item 2: Inputs from Beijing Regional Node

2. Ms. Li Rouxi (CNCID), on behalf of the Head/Representative of the Beijing Regional Node presented a report on the activities undertaken in 2017-18 by the Beijing RN and future plans for the information of the Advisory Committee, including holding together with KCID an international training session in 2019 and signing with PANCID an MOU to conduct a research on modernization of irrigation systems. She also brought up two suggestions for future IRPID activities, namely: (i) setting up a network of training specialists; and (ii) setting up a mechanism of regular meeting and exchanges among countries of the same regional node.

3. The Committee acknowledged the great work done by Beijing RN of IRPID, and appreciated the valuable support provided by Chinese Government and KCID.

AC-IRPID Minutes Item 3: Inputs from Ahwaz Regional Node

4. Dr. Narges Zohrabi, Head of IRPID-IRN presented a report on the activities undertaken so far by the Ahwaz RN and future plans for the information of the Advisory Committee, including extending and following up member countries' contribution to the database, inviting more countries to join the RN, keeping up the current research and sharing with the member countries, encouraging international organizations to support the cause. She solicited help from the ICID CO to contact the ADB and WB for their financial support to IRPID activities.

5. The Committee applauded the Ahwaz RN's effort on establishing an organization with sound structure and institution and encouraged it to launch more training and research programs.

AC-IRPID Minutes Item 4: Evolving Collaborative Research Mechanism among the Regional Nodes

6. The Advisory Committee reviewed the existing collaborative research mechanism among the RNs and explored the ways to further evolve it.

7. The Advisory Committee requested all RNs and NCs to encourage the research institutions in their country involved in AWM to join the network by projecting key information of their research activities for wider dissemination and fulfilling the objective of collaborative research mechanism among the RNs

AC-IRPID Minutes Item 5: Dissemination Mechanism on Exchange of Research Findings

8. Mr. Varma apprised the Committee about the progress made so far on encouraging the exchanges of research findings on an intra-node basis and inter-nodes basis, including setting up of web page on the ICID website and organizing webinars.

9. VPH Ding Kunlun suggested that the webinars held by RNs should include participation from PCTA.

AC-IRPID Minutes Item 6: Establishment of Additional Regional Nodes

10. TAJCID presented its proposal of establishing a RN hosted by Tajikistan NC for Central Asia and Caucasian region.

11. The Committee considered the proposals and advised about the establishment of RNs in North Africa, the Mediterranean Region, Latin America, and Central Asia and Caucasus regions, and decided to report the proposals to PCTA and IEC.

12. Nigerian delegates suggested that a separate RN be established for sub-Saharan countries considering its unique agro-climate and irrigation infrastructure conditions.

AC-IRPID Minutes Item 7: Leveraging National Funding for Raising Financial Resources by RNs

13. The Committee discussed means for raising financial resources, including securing supports from government, obtaining enterprise sponsorship, and lobbying international organizations like FAO to support IRPID training and research programs.

