

**AGENDA FOR THE 4TH MEETING OF THE
WORKING GROUP ON HISTORY OF IRRIGATION, DRAINAGE AND
FLOOD CONTROL (WG-HIST)**

28 November 2021, 14:00-15:45 hours (Session I) and 16:15-18:00 hours (Session II)
Marrakesh, Morocco

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://icid-ciid.org/inner_page/125

WG-HIST Agenda Item 1: Action taken report by the Chair¹

1. The Chair will present the report on the actions taken on the decisions and proposals of the working group at its last meeting.
2. In June 2021, Nepal National Committee (NENCID) has nominated Mr. Krishna Prasad Nepal for the membership of the working group. In September 2021, Chinese National Committee (CNCID) has nominated Dr. Chen Jing, Dr. Dai Xiaoping – Young Professional, and Mr. Gao Lihui – Young Professional (China) for the membership of the working group.
3. Chair in consultation with Vice Chair, Secretary of the WG and the Central Office have updated the membership of the WG as given at **Annex 1** (*refer electronic version for latest list*). New nominations, if any, for the membership received will be dealt suitably after the meeting.
4. During the second monthly meeting on 7 June 2021, ICID President Dr. Ragab Ragab (UK) discussed various activities of the ICID. During the virtual meeting, President Dr. Ragab has suggested ICID Central Office to contact the Chair/ Vice Chair/ Secretary of the working group and request them to organize at least two virtual meetings in a year apart from the physical meetings organized during the annual IEC meetings of ICID. Accordingly, ICID Central Office has communicated Chair to organize virtual meeting however, no virtual meeting of the WG could be organized. A dedicated webpage “[ICID Workbodies Virtual Meeting](#)” has been created where minutes of the virtual meetings of the WGs can be referred to.

WG-HIST Agenda Item 2: Road Map to ICID Vision 2030 - Activities on history of irrigation, drainage and flood control

5. During virtual meeting in October 2020, the group discussed the Road map to ICID Vision 2030 and provided latest updates to PCTA for inclusion of History Seminar during 2022 meeting. It was also decided to organize an International Workshop on the above topic during upcoming Congress. The 70th International Executive Council (IEC) vide **Resolution IEC-2/70** had approved the Action Plan 2018-2022, including activities identified by Regional Working Groups (RWGs) and Working Groups (WGs) under PCSO and PCTA, committed to be achieved over a period of five years. In order to develop fresh action plans for 2018-2022, WG may revisit the Action Plan appended to Road Map to ICID Vision 2030 and review the same during virtual meeting and update it till 2023 (refer **Annex 2**). Chair will provide further updates at the meeting.

WG-HIST Agenda Item 3: Publication on “Historical Water Sustainability”

6. During virtual meeting in October 2020, the group decided to finalize the editing process of the Working Group publication titled “Historical Water Sustainability” by the end of March 2021. In response to Central Office, President

¹ This will also include details of membership of WG as **Annex**

Hon. Peter Lee (UK) has shared the edited chapters of the publication to ICID Central Office for finalization. The group also proposed to organize a virtual meeting by the end of March 2021 for discussion on publication of the group. Accordingly, Central Office requested Chair Dr. Kamran Emami to organize the virtual zoom meeting however, no virtual meeting of the WG could be organized.

7. As suggested by Dr. Kamran Emami, ICID Central Office contacted Prof. Laszlo Hayde (Hungary) and requested for contribution of a chapter from Hungary and he has kindly shared the chapter "Historical Background that Laid the Foundations for Sustainable Agriculture in Hungary" in September 2021. Similarly, in response to Central Office's request, Mr. Ashok Kumar Kharya, Chief Engineer, National Water Academy, Central Water Commission (India) shared the chapter "The History of Irrigation Development in India" for inclusion in the publication. Both the authors have prepared and shared the chapter within a short time. ICID Central Office sent the draft version of the chapters to an expert for editing purpose. The final contents of the chapter of the publication "Historical Water Sustainability" is as follows:

- (a) Sustainable Development and Water Resources - *Ali Bagheri and Peder Hjorth*
- (b) Sustainability of Chinese Civilization and Water Conservation
- (c) The Roles of Management in Sustainability of Irrigation Systems - *Charles L Abernethy*
- (d) History of Irrigation in Thailand and its Sustainability
- (e) Qanats of Iran: Sustainable Water Supply Systems - *Ali Asghar Semsar Yazdi and Majid Labbaf Khaneiki*
- (f) The Beemster, A Drained Lake That Already Proved to be Sustainable for more than 400 Years - *Bart Schultz*
- (g) The History of Irrigation Sustainability in Malaysia - *The Malaysian National Committee on Irrigation and Drainage (MANCID)*
- (h) Historical Water Sustainability: Lessons to learn from Japanese experiences - *Nobumasa Hatcho and Yutaka Matsuno*
- (i) Creative Sustainability in the Context of History - *Kamran Emami*
- (j) The Grand Canal (later The Cavour Canal) - *Antonio Linoli*
- (k) Water History and Sustainability in Indonesia - *A. Hafied A. Gany*
- (l) Innovation and intuition in hydraulic engineering: A brief history of hydraulic engineering in Central Europe
- (m) Sustainable irrigation in South Africa: Evidence from history - *Lani van Vuuren*
- (n) Can the Dutch keep their polders dry? Impact of changes in land use and climate on water management and flood protection of the polders in The Netherlands - *Bert Toussaint and Bart Schultz*
- (o) The History of Irrigation Development in India - *Ashok Kumar Kharya, Ravi Bhushan Kumar, Chaitanya K.S.*
- (p) Historical Background that Laid the Foundations for Sustainable Agriculture in Hungary – *Laszlo Hayde*

8. As decided by the group in May 2021, Central Office with the help of an expert edited the final version of the chapters' and shared the edited final version along with the editor's observations to Chair Dr. Kamran Emami for final approval before publishing however, response from the Chair is awaited. Chair will provide further updates on the publication at the meeting.

SUPP: In November 2021, Mr. Ju-Chang Kim (South Korea) has contributed a paper titled "History of Irrigation and Tideland Reclamation in Korea" for its inclusion in the publication. Chair Dr. Kamran Emami has suggested to include the same in WG publication. Accordingly, ICID Central Office has sent the paper to Dr. Vijay Labhsetwar for editing purpose and after editing, it will be included in the final publication.

WG-HIST Agenda Item 4: Exchange of information, knowledge and networking – Website

9. Chair encouraged members to present any new documentary produced on water history and also requested members to send relevant materials/ documents/ articles to ICID Central Office for uploading on the WG's website. In June 2021, Central Office requested members to share articles/ documents/ reports/ presentations related to the mandate of the group for uploading the same on ICID website.

10. Webinar on "Learning from Historical Irrigation and Drainage Structures" was organized on 19 February 2021 by the Irrigation and Water Forum, British Section of ICID. The rapid changes that are taking place around the world caution us to learn from history. Central Office disseminated the information about organization of webinar and invited professionals to participate in the webinar. Dr. Kamran Emami, Vice President, ICID and Chairman of WG-HIST delivered lecture on the ICID publication "Historical Water Sustainability" while Dr. Marco Arcieri, Vice President, ICID delivered lecture on "Aqua Augusta: A System of Aqueducts from the First Century B.C. serving the Roman Empire". A dedicated website has been established by the ICID Central Office wherein the recordings of all webinar is accessible at – https://icid-ciid.org/inner_page/66. Chair will provide further updates at the meeting.

WG-HIST Agenda Item 5: Review of World Historical Irrigation Structures (WHIS) and WSH Program

11. In the year 2021, sixteen nominations have been received from the National Committees viz. China (3), India (4), Iraq (2), Japan (2), Mexico (1), South Korea (2), Sri Lanka (2). All the nominations were sent to Panel of Judges for evaluation. Members may take initiative by encouraging nominations for WHIS as it is providing opportunity to publicize ICID name and encourage general public to participate in managing such systems. A dedicated website has been introduced by ICID Central Office wherein all the approved structures of WHIS is accessible at – <https://icid-ciid.org/award/his/44>. Chair will provide further updates at the meeting.

WG-HIST Agenda Item 6: Any other business

12. **ICID Members' Profile Section:** As a new initiative, ICID has launched a new website (<https://icid-ciid.org>) as part of ICID's 70th Anniversary Celebration to meet the new web technologies. One of the newly added web features provides WG members access to their profile section using their dedicated account. ICID CO vide email dated 9 July 2021 < <https://icid.bmeurl.co/C7D4D2E> > informed all members on how to access their account and change their password to maintain accuracy. Members are requested to review and update their information using their credentials and help us to maintain accurate information.

13. **Register on World Irrigation Projects (WIP):** ICID has taken an initiative to document the development of irrigation projects in the world by establishing an online Register on “World Irrigation Projects (WIP)”. WIP will fulfill the need for a much-awaited global repository of information in systematic irrigation and agricultural water management. Irrigation projects having 5000 Hectares and above of Gross Command Area can submit their information for inclusion in the register. The irrigation projects approved by National Committee/ ICID Central Office for inclusion are entitled to Certification. Members are also requested to encourage all irrigation project owners, managers, and researchers across the world and especially in our member countries for contributing to the register. This facility is also extended to non-member countries if the information is received from an authorized agency. The review process and other details are outlined on the portal < <https://wip.icidevents.org/> > in detail.



NOTES FOR CHAIRPERSON:

1. Draft minutes of this meeting to be submitted to ICID Secretariat at Marrakesh, Morocco after the meeting.
2. Chair to participate and present the WG report to PCTA meeting on 29 November 2021.

A. Members and their attendance at 2019 and 2020 meetings

No.	Members	Member from (Year)	2019		2020		Remarks
			Self	Contributed by mail	Self	Contributed by mail	
1.	Dr. Kamran Emami, Chairman (Iran)	2017	•	•	•	•	
2.	Eng. Ahmed Awad Hag Abd-Elnabi (Egypt)	2017				•	
3.	VPH Dr. Laszlo Hayde (Hungary)	2017	•		•		
4.	VPH Dr. A. Hafied A. Gany (Indonesia)	2017		•	•		
5.	Engr. Sirika Ahmad Abubakar (Nigeria)	2017	•			•	
6.	VPH Dr. Gerhard Backeberg (South Africa)	2017					
7.	VPH Chaiwat Prechawit (Thailand)	2017			•		
8.	Mr. Charles L. Abernethy (UK)	2017		•			
9.	Dr. Ahmed Adam Ibrahim (Sudan)	2018					
10.	VPH Prof. Dr. Dia El Din Ahmed El Quosy (Egypt)	2018		•			
11.	Dr. Sinite Yu (Chinese Taipei Committee)	2018	•	•	•		
12.	Dr Ju-Chang Kim (South Korea)	2019	•	•	•		
13.	Dr. Masaomi Kimura (Japan)	2020			•		
14.	Dr. Yutaka Matsuno (Japan)	2020			•		
15.	Dr. Shivaji Sangle, Director Member – MWRRA (India)	2020			•		
16.	Mr. Wang Li (China)	2020				•	
17.	Secretary General, ICID				# ²		
Permanent Observers							
18.	Dr. Ir. M. Ertsen (IWHA)						
19.	Dr. Ing. Klaus Rottcher (Germany)		•	•		•	
20.	Dr. (Mrs.) B. Dolfing (The Netherlands)						

B. New nominations received from the National Committee

No.	Name	Country	Remarks
1	Mr. Krishna Prasad Nepal	Nepal	Recommended as member, subject to his presence else provisional member
2.	Dr. Chen Jing	China	Recommended as member, subject to her presence else provisional member
3.	Dr. Dai Xiaoping – Young Professional	China	Recommended as member, subject to his presence else provisional member
4.	Mr. Gao Lihui – Young Professional	China	Recommended as member, subject to his presence else provisional member



² Through representation

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	Milestone for Year 2022	Milestone for Year 2023	Responsibility
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 (Bali)			Workshop / seminar	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		Compile lessons learned from WHIS/ WSH				Finalize the publication on Historical Water Sustainability		
	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	Nomination/ evaluation /update register	Nomination/ evaluation /update register	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	Nomination/ evaluation / update register	Nomination/ evaluation / update register	Nomination/ evaluation / update register	
C5. Strategy: Dissemination of Data, Information, Tools, Knowledge and Know How	5.10 Documentaries on Water history	Encouraging the member counties to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member counties to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member counties to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member counties to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member counties to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member counties to produce documentaries on water history by presenting the prize on the best documentaries	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	Uploading the relevant documents	Uploading the relevant documents	Uploading the relevant documents	Uploading the relevant documents	Uploading the relevant documents	Uploading the relevant documents		
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			Preparing the conclusion chapter for the WG publication	Preparing the conclusion chapter for the WG publication	Preparing the conclusion chapter for the WG publication	Preparing the conclusion chapter for the WG publication	Preparing the conclusion chapter for the WG publication	Finalizing the editing process		
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	Presenting a paper for the journal of Irrigation and drainage			Presenting a paper for the journal of Irrigation and drainage		

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

