

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

05 September 2024, 14:00-15:30 hours (Session I) and 16:00-17:30 hours (Session II)
Sydney, Australia

Strategy Theme: Sustainable Development

WG-HIST Agenda Item 1: A brief report on the restructuring of WG by the Chair

1. At the 74th International Executive Council (IEC) meeting in Vizag, India, a proposal for the restructuring of the Working Groups was discussed and approved. Among the existing 18 working groups, 9 working groups completed their mandate in November 2023. The remaining working groups have been structured into 11 new working groups under four themes: (1) Irrigation and Drainage; (2) Natural Resources; (3) Climate Change and Impacts; and (4) Sustainable Development. Under these four themes, the WG-HIST has been included in theme 4 (Sustainable Development). As per the structure approved by IEC, a new group – Working Group on History of Irrigation Drainage, and Flood Control (WG-HIST) has been formed.

2. Dr. Kamran Emami will provide a brief report on the structure of the new WG-HIST.

WG-HIST Agenda Item 2: Discussion on the Scoping Document for new WG

3. The ICID Central Office has contacted the Chair of erstwhile WG-HIST and requested to prepare the draft Scoping Document for the establishment of a new WG-HIST.

SUPP: In July 2024, VPH Dr. Kamran Emami shared the draft Scoping Document for the establishment of a new WG-HIST (**Annex 3**).

4. Members may discuss towards finalization of a draft Scoping Document during the meeting and send the final version to PCTA for approval.

5. The following new nominations have been received for the membership of the new WG-HIST:

- Dr. (Ms.) Ya-wen Chiueh (Chinese Taipei Committee)
- Dr. Watchara Suiadee (Thailand)

SUPP: On 31 August 2024, the Malaysian National Committee on Irrigation and Drainage (MANCID) nominated Mr. Kalaiselvam Velayudan for the membership of WG-HIST.

6. The membership of the erstwhile WG-HIST is given in **Annex 1** (refer to the electronic version for the latest list). New nominations, if any, for the membership received, will be dealt suitably after the meeting.

WG-HIST Agenda Item 3: Election of Chair, Vice Chair, and Secretary of restructured new WG

7. The group members will discuss and may like to elect new Chair, Vice Chair, and Secretary for the new WG during the meeting.

WG-HIST Agenda Item 4: Road Map to ICID Vision 2030 - Status of activities on history of irrigation, drainage, and flood control

8. The Action Plan of the Road Map to ICID Vision 2030 of the erstwhile WG-HIST is given as **Annex 2**. The group will discuss and prepare the Action Plan for the Road Map to ICID Vision 2030 as per the mandate of the new WG-HIST at the meeting.

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

9. In the year 2024, 18 nominations have been received from the National Committees of China (4), India (4), Iran (4), Iraq (1), Japan (3), South Africa (1), and Turkey (1) for the World Historical Irrigation Structures (WHIS). All the nominations have been sent to the Panel of Judges for evaluation. Members may take the initiative by encouraging WHIS nominations as it allows them to publicize ICID's name and promote the general public to participate in managing such systems. The ICID Central Office has introduced a dedicated page on the website wherein all the approved structures of WHIS are accessible at – <https://icid-ciid.org/award/his/44>. Chair will provide further updates at the meeting.

WG-HIST Agenda Item 6: Publication of erstwhile WG-HIST - Historical Water Sustainability

10. Under the Chairmanship of VPH Dr. Kamran Emami, the erstwhile WG-HIST brought out the publication titled "Historical Water Sustainability" as an output of the Working Group, which aims to promote the practices and concepts of historical water sustainability. The publication was released during the 25th ICID Congress and 74th IEC meeting in November 2023. Soft version of the publication is available on the ICID webpage at https://icid-ciid.org/inner_page/125

WG-HIST Agenda Item 7: Any other business (with permission of Chair)

11. **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 accounts and change their passwords to maintain accuracy. Members are requested to review and update their information using their credentials and help us to maintain accurate information. For more information, please refer to inside back cover page.

12. **World Irrigation and Drainage Schemes (WI&DS):** ICID has taken the initiative to document the development of irrigation and drainage schemes in the world by establishing an online Register on "World Irrigation and Drainage Schemes (WI&DS)". WI&DS will fulfil 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 Command Area can submit their information for inclusion in the register. The irrigation projects approved by the National Committee/ ICID Central Office for inclusion are entitled to Certification. The chair will encourage members to urge all irrigation and drainage scheme owners, managers, and researchers across the world, especially in their respective countries to contribute to the register. 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 Sydney, Australia after the meeting.
2. Chair to participate and present the WG report to PCTA meeting on 06 September 2024.

A. Membership of erstwhile WG-HIST

No.	Members	Country	Remarks
1.	VPH Dr. Kamran Emami	Iran	Chairman
2.	Mr. Wang Li	China	
3.	Dr. Chen Jing	China	
4.	Dr. Dai Xiaoping – Young Professional	China	
5.	Mr. Gao Lihui – Young Professional	China	
6.	Dr. Sinite Yu	Chinese Taipei Committee	Renominated for new WG
7.	Dr. Tsu-Chuan LEE	Chinese Taipei Committee	Renominated for new WG
8.	Dr. Cheh-Shyh Ting	Chinese Taipei Committee	
9.	VPH Dr. Laszlo Hayde	Hungary	
10.	Dr. Shivaji Sangle, Director Member – MWRRA	India	
11.	VPH A. Hafied A. Gany	Indonesia	
12.	Dr. Masaomi Kimura	Japan	
13.	Dr. Yutaka Matsuno	Japan	
14.	Engr. Sirika Ahmad Abubakar	Nigeria	
15.	Dr. Qazi Tallat Mahmood Siddiqui	Pakistan	
16.	Mr. Ju-Chang Kim	South Korea	
17.	VPH Chaiwat Prechawit	Thailand	
18.	Mr. Hasan Basri Yüksel	Turkey	
19.	Mr. Oğuz Şirin	Turkey	
20.	Mr. Ahmet Emirhan Yolcu	Turkey	
Observers/ Permanent Observer			
21.	Dr. Yao Jianfeng	China	
22.	Dr. Ing. Klaus Rottcher	Germany	
23.	Dr. (Mrs.) B. Dolfing	The Netherlands	
24.	Dr. Ir. M. Ertzen (IWHA)		

B. New nominations received from the National Committee/ Committee

Sr. No.	Name	Country/ Organization	Remarks
1	Dr. (Ms.) Ya-wen Chiueh	Chinese Taipei Committee	Recommended as a member, subject to her presence else provisional member
2	Dr. Watchara Suiadee	Thailand	Recommended as a member, subject to his presence else provisional member
3	Mr. Kalaiselvam Velayudan	Malaysia	Recommended as a member, subject to his presence else provisional member



ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF ERSTWHILE WG-HIST

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for 2017	Milestone for 2018	Milestone for 2019	Milestone for 2020	Milestone for 2021	Milestone for 2022	Milestone for 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 countries to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member countries to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member countries to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member countries to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member countries to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member countries to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member countries to produce documentaries on water history by presenting the prize on the best documentaries	Encouraging the member countries 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			
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)



**WORKING GROUP ON
HISTORY OF IRRIGATION, DRAINAGE AND FLOOD CONTROL (WG-HIST)**

UPDATED SCOPING DOCUMENT

1. Introduction

- 1.1 As dawn breaks on the 21st century, humanity is confronted with three fundamental problems that are interrelated in a complex system: water crisis, sustainability and flood mitigation. Coping with the water-related challenges in the 21st century requires major technical jumps and innovations in all fields.
- 1.2 In knowledge management literature it is often pointed out that it is important to distinguish between data, information, knowledge and wisdom. The generally accepted view sees data as simple facts that become information as data is combined into meaningful structures, which subsequently become knowledge as meaningful information is put into a context and when it can be used to make predictions. This view sees data as a prerequisite for information, information as a prerequisite for knowledge and knowledge as a prerequisite for wisdom. In Figure 2, data are assumed to be simple isolated facts. When such facts are put into a context, and combined within a structure, information emerges. When information is given meaning by interpreting it, information becomes knowledge. At this point, facts exist within a mental structure that consciousness can process, for example, to predict future consequences, or to make inferences. As the human mind uses this knowledge to choose between alternatives, behavior becomes intelligent. Finally, when values and commitment guide intelligent behavior, behavior may be said to be based on wisdom.
- 1.3 With today's sophistication, the time step for a typical data to wisdom process may be a day or a week or a month in industrial cases. But in the context of water engineering, the time step may be a year or a decade or a century. Consequently the water wisdom of the past which was achieved in a period of hundreds of years can be regarded as a unique and irreplaceable gift from our ancestors to contemporary water engineers. Hopefully, the water wisdom of our ancestors would play a key role in our adaptation with the water related challenges of the 21st century. It is therefore necessary that we look back at the ancient creation of the fertile human brains that used the synergy of science and art at that moment of time to provide us with abundant food for thought. It should be remembered that foundation of the future rests on the achievement of the past.
- 1.4 The water engineering is a vital part of the story of civilization. Reservoirs for water supply were undoubtedly among the earliest structures devised by mankind. The role that water management structures have played over the ages is documented in many records of historical lands. These structures have been linked closely to the rise and decline of civilizations, especially to those cultures highly dependent upon irrigation.
- 1.5 The mission of ICID is to stimulate and promote the development and application of the arts, sciences and techniques of engineering, agriculture, economics, ecological and social sciences in managing water and land resources for irrigation, drainage, flood management, for achieving sustainable agriculture water management and water history can be used for achieving this mission.

2. Objectives

2.1 Relevance of the Working Group

2.1.1 The relevance of the WG can be specified as follows:

- (a) Water History aims to foster historical understanding of the relationship between water and humankind. Lessons learned from water history can be used to enhance our strategies for sustainable irrigated agriculture.;
- (b) The WG is expected to contribute to effective implementation of the Strategy Theme Schemes and to other strategy themes;
- (c) The water engineers are facing great challenges in coming decades. Water history can be used to inspire them and promote stakeholders participation, creativity and innovation.

3. State of knowledge on the topic

3.1 Other International Organizations that are working on the subject

- 3.1.1 There are very few other International Organizations that have programs and activities on this topic. This especially concerns the:
 - (a) International Water History Association (IWHA)

- (b) TF-HIS in ICID

3.2 *Mandate of the Working Group*

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

- (a) 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 history of 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 (agricultural, political, socio-economic, climatologically and geographical, ... aspects for proper understanding of the technological developments in the subject);
- (d) To organize seminars at ICID Congresses and meeting to enhance awareness of importance of Water history;
- (e) To prepare a paper on “Historical Water Sustainability” for publication in *Irrigation and Drainage (IRD)*;
- (f) To finalize a book on “Historical Water Sustainability”.
- (g) To encourage member countries to produce documentaries on Water History.

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

3.3.1 WG-HIST would promote synergy with all International Organizations active in water history.

4. **Work Plan**

4.1 *Scope*

4.1.1 The WG is expected to investigate, analyse, and disseminate information on different aspects of water history and to formulate recommendations with respect to:

- (a) Ensuring sustainability of irrigation and flood projects;
- (b) Combining old methods and modern technologies for enhanced creativity and innovation;
- (c) Preserving the historical structures.

4.2 *Target audience*

4.2.1 The target audience for this working group will be managers of irrigation schemes, researchers, consultants, manufacturers, government officials, farmer’s representatives and staff of International Organizations working on the topic and anybody interested in “*“A water secure world free of poverty and hunger through sustainable rural development”*”.

4.3 *Outputs*

4.3.1 The following outputs can be expected from this WG:

- (a) Proceeding of the seminars and workshops;
- (b) A documentary on the publication of WG-HIST in 2023: “Historical Water Sustainability”;
- (c) Documentaries from National Committees.
- (d) WG website;
- (e) Overview paper on “Historical Water Sustainability” for publication in *Irrigation and Drainage (IRD)*.

4.4 *Timelines*

4.4.1 A five year tenure is requested for this phase of WG’s activities.

