

**MINUTES OF THE 2ND MEETING OF THE
WORKING GROUP ON HISTORY OF IRRIGATION, DRAINAGE AND
FLOOD CONTROL (WG-HIST)**

05 September 2019, 14:00-16:00 hours (Session I)

05 September 2019, 16:15-18:15 hours (Session II)

Bali, Indonesia

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.

Members Present: (1) Vice President Dr. Kamran Emami, Chair (Iran); (2) Mrs. Xuming Tan (China); (3) VPH Dr. Laszlo Hayde (Hungary); (4) Mr. Ju-Chang Kim (Korea, Rep. of); (5) Engr. Sirika Ahmad Abubakar (Nigeria); (6) Dr. Sinite Yu (Chinese Taipei).

Permanent Observer: Dr. Ing. Klaus Rottcher (Germany).

Observers: (1) PH Bart Schultz (The Netherlands); (2) Rendy Aslan (Indonesia); (3) Yutaka Matsuno (Japan); (4) David Emmanuel (Nigeria).

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

WG-HIST Minutes Item 1: Action taken report by the Chair

1. At the onset, Chair presented the report on the actions taken on the decisions and proposals of the working group at its last meeting held at Saskatoon in August 2018.

2. WG reviewed the membership of the group which includes one new nomination viz. Mr. Ju-Chang Kim (Korea, Rep. of) and the same was accepted with the participation of the nominee. The member from Pakistan (Prof. Dr. Abdul Sattar Shakir), Korea (Prof. Jaekyoung Noh), and Sri Lanka (Eng. S.P.C. Sugeeshwara) have 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 their membership with the recommendation to invite new nomination from the National Committees. Membership status is given in **Annex 4 (page 27)**.

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

3. The group discussed the Road Map to ICID Vision 2030 and provided latest updates to PCTA for inclusion of relevance of water history to SDGs and ICID Vision 2030 (refer **Annex**). It was also decided to organize an International Workshop on the above topic during Sydney Congress in 2020.

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

4. The Chair informed the WG’s members about the conclusions chapter prepared and presented in the History Workshop in Bali. The group decided to request President Hon. Peter Lee to edit the chapters by the end of July 2020. The chapters have been formatted by President Hon. Bart Schultz. The Chair would finalize the conclusions chapter by the end of February 2020 and would email to the members for review. The review process should be concluded by the end of July 2020 and the tentative publican should be submitted to ICID Central Office for final editing. It was also recommended that important points of the papers submitted in the history workshops organized by the WG-HIST should also be considered for the conclusions chapter. The book has the following chapters:

- (a). Water History and Sustainability in Indonesia – A. Hafied A. Gany

- (b). The Grand Canal (later the Cavour Canal) – Antonio Linoli
- (c). Sustainability of Chinese Civilization and Water Conservation
- (d). Creative Sustainability in the context of history – Kamran Emami
- (e). History of Irrigation in Thailand and its Sustainability
- (f). Historical Water Sustainability: Lessons to Learn from Japanese Experiences – N. Hatcho and Yutaka Matsuno
- (g). Sustainable Development and Water Resources – Ali Bagheri and Peder Hjorth
- (h). Sustainable Irrigation in South Africa: Evidence from History – Lani van Vuuren
- (i). The roles of management in sustainability of irrigation systems – Charles L Abernethy
- (j). The History of Irrigation Sustainability in Malaysia – MANCID
- (k). The Beemster, A drained lake that already proved to be sustainable for more than 400 years – Bart Schultz
- (l). Qanats of Iran: Sustainable Water Supply Systems – Ali Asghar Semsar Yazdi and Majid Labbaf Khaneiki
- (m). Can the Dutch keep their polders dry is not listed, 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

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

5. A brief report of the Conference on Water Heritage held in Chiayi City, Chinese Taipei from 27 to 29 of May 2019 was presented by the representative from Chinese Taipei. Next year, there is a Conference by ICOMAS in Sydney a few days after ICID Congress. The members were encouraged to use the opportunity to attend both events.

WG-HIST Minutes Item 4.1. Website of the group

6. It was agreed to prepare a package of presentations, papers, reports and documentaries on water history. The package will be uploaded on the WG's website.

WG-HIST Minutes Item 4.2. Webinar/ Web based seminar

7. After discussion, the group proposed the organization of a web-based e-discussion in the month of February 2020.

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

8. The group noted that 17 nominations were presented for WHIS program by member countries and all were accepted. It was suggested that each country can nominate up to 4 structures each year to make the WHIS sustainable with high quality and prospective applications competitive.

WG-HIST Minutes Item 6: International Workshop on Historical Water Sustainability, September 2019, Bali

9. The International Workshop on Historical Water Sustainability was organized on 1 September 2019 wherein 11 papers were presented. More than 80 managers and engineers from 20 countries participated in the workshop. WG Chair also presented a summary of the publication of the working group on Historical Water Sustainability. A documentary on Water History in China was also presented. A summary of the workshop was presented at the end of workshop by the chair and it was emailed to President H. Bart Schultz to be included in final documents of the event. The following papers were presented in the workshop:

09.00-09.30	Welcome and a summary of the publication of the WG-HIST on Historical Water Sustainability by <i>VP Dr. Kamran Emami, Chair, WG-HIST</i>
09.30-09.45	Institutional setup of irrigation and drainage in Afghanistan by <i>Hafeezullah Hashimi, Nahid Samadi and Naseer Ahmad Fayez</i>
09.45-10.00	Technology transfer and water sustainability-Experiences of Japan by <i>Nobumasa Hatcho and Yutaka Matsuno</i>
10.00-10.15	Analysis on Dujiangyan Irrigation System and its sustainable development experience by <i>Liu Jiangang, Tan Xuming, Deng Jun, Zhou Bo, Li Yunpeng, Guan Jianzhao</i>

10.15-10.30	Reservoir regulations in 1662 by the government of Joseon dynasty, Korea by Kim, Ju-Chang and Lee, Seok-Woo
10.30-11.00	Discussion with questions from audience
11.15-11.30	Water supply and water demand – a model for a better understanding of Assyrian water management along the Lower Hābūr River by <i>Klaus Röttcher</i>
11.30-11.45	Research on water conservancy legislation and related issues in XIXIA by <i>You Hua</i>
11.45-12.00	Historical water sustainability: a case study of the Phad irrigation system of Maharashtra state, India by <i>Dr. Shivaji T. Sangle and K. P. Bakshi</i>
12.00-12.15	Characteristics and values of irrigation historical sustainability in China by <i>Li Yunpeng, Zhou Bo and Tan Xuming</i>
12.15-12.30	Research on Jiangxiyan Irrigation System by <i>Zhou Bo, Li Yunpeng, Tan Xumin, Deng Jun, and Liu Jiangang</i>
12.30-12.55	Discussion with questions from audience
12.55-13.15	Wrap-up and closing remarks by Chair

WG-HIST Minutes Item 7: Impact of climate events on ancient civilization

10. Vice President Dr. Marco presented a summary of his book on Impact of climate events on ancient civilization which was appreciated by the members of WG and observers. Professor Klaus Röttcher also briefly presented his paper on Water supply and water demand – a model for a better understanding of Assyrian water management along the Lower Hābūr River.

WG-HIST Minutes Item 8: Any other business



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 (Bali)		
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	
	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 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
	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	
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		

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

