

**MINUTES OF THE 4<sup>TH</sup> MEETING OF THE  
WORKING GROUP ON ENVIRONMENT (WG-ENV)**

5 September 2019, 09:00-11:00 hours (Session I) and 11:15-13:15 hours (Session II)  
Bali, Indonesia

**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.

**Members Present:** (1) Prof. dr. (Ms.) Charlotte de Fraiture, Chair (Netherlands); (2) Dr. Fuqiang Tian (China); (3) Engr. Reynaldo L. Baloloy (Philippines).

**Observers:** (1) Mr. Chris Nicholson (Australia); (2) Howard Ho (Chinese Taipei).

**Website:** [https://www.icid.org/wg\\_env\\_new.html](https://www.icid.org/wg_env_new.html)

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

1. The Chair opened the meeting and welcomed everyone present. All the participants introduced themselves and explained why they were interested in contributing to the activities of WG-ENV. The Chair provided feedback on the decisions and proposals of the working group at its last meeting held at Saskatoon in August 2018.

2. The working group welcomed Mr. Carl Walters (Australia) (represented by Chris Nicholson), Dr. Hao-Che Ho (Chinese Taipei), Reynaldo L Baloloy (Philippines), Fuqiang Tian (re-activation) (China). The group accepted them as members. Others interested in joining the working group were encouraged to be officially nominated by their national committees through ICID Central Office. Akhmadjonov Vokhidjon Mukhammedjonovich (Uzbekistan) was not present hence, he was accepted as Provisional Member until the next meeting. Membership status is given in **Annex 4** (page 27).

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

3. During the meeting, the group noted that the original proposal was to organize a combined session with WG-CLIMATE, but it was subsequently realized that the interests of the two WGs were not well-aligned, so WG-CLIMATE arranged an independent workshop. An interactive brain-storming session was held to identify key sub-themes and relative case studies for the review paper on ecosystem services of irrigated systems. WG reviewed the Action Plan for WG-ENV and updated the same keeping in view the mandate and availability of resources for achieving various activities (refer **Annex**).

**WG-ENV Minutes Item 2.1: Publications of the working group**

4. The review paper on ecosystem services provided by irrigated agriculture was extensively discussed during the meeting. Dr Seija Virtanen contributed by email suggesting a revised title for the review paper i.e. “*Analysis of ecosystem services provided by irrigated and controlled drainage agriculture*”. The working group members felt that this is a good suggestion and adopted it as the working title. The list of sub-themes for the paper were identified, including potential authors for the different sections. It was proposed that further correspondence via email will be used. It was decided that different case studies would be submitted from WG-ENV members from their own countries under the following tentative sub-themes: (1) Flood control, (2) Water quality enhancement, (3) Wastewater re-use, and (4) Micro-climate control.

**WG-ENV Minutes Item 3: Updating Multilingual Technical Dictionary (MTD)**

5. An updated list of the MTD with contributions from WG-ENV was forwarded to ICID Central Office at the end of 2018.

**WG-ENV Minutes Item 4: Dissemination - Sharing documents on website****WG-ENV Minutes Item 4.1: Website of the group**

6. During the meeting, relevant information was identified by WG to update the website. It has been decided that a 'Google Drive' folder will be created for WG-ENV members to share literature on ecosystem services provided by irrigation and drainage systems and to start compiling the review manuscript.

**WG-ENV Minutes Item 4.2: Webinar/ Web based seminar**

7. After discussion, it was proposed that while a virtual WebEx meeting did not take place during last year, one is being planned for the beginning half of 2020 to discuss progress towards the review manuscript.

**WG-ENV Minutes Item 5: Workshop to be organized by the working group**

8. The group discussed about the organization of the workshop and considered arranging a Workshop on "Ecosystem services of irrigation and drainage systems" in Australia in 2020, which will give members an opportunity to present and discuss various case studies of ecosystems services for inclusion in the review paper.

**WG-ENV Minutes Item 6: International Conference on "Promoting sustainable paddy farming to achieve the SDGs", 20-22 November 2018, Nara City, Japan - Feedback**

9. During the meeting, Prof Hatcho and Prof Charlotte provided feedback on their attendance of the PAWEES meetings in Nara, Japan last November 2018. Besides the workshop, Prof. Nobumasa Hatcho (Vice Chair-WG-ENV) chaired the INWEPF Steering Meeting and policy and technical sessions. Later a presentation ceremony for the four ICID World Heritage Irrigation Structures (WHIS), presented to Japan in 2018, was also organized during the Nara conference. The Kurokawa-Shirakawa Land Improve District introduced the Shirakawa Basin Irrigation System, one of the four registered WHIS, outlining its history, technical features and socioeconomic aspects of the irrigation system.

**WG-ENV Minutes Item 7: Any other business**

10. Active contributions and informative discussions were held during 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
<b>Goal A: Enable higher crop productivity with less water and energy</b>							
<b>A6. Strategy:</b> Improving performance of irrigation and drainage systems	6.2 Investigating and documenting positive and negative environmental impacts of irrigation and drainage systems also taking ecosystem services of aquacultures into account.	Guidelines/Case Studies			Structure for review manuscript on ecosystem services of irrigation and drainage	Workshop on ecosystem services of irrigated cropping systems	Published paper on ecosystem services of irrigated cropping systems
	6.6 Improving communication among country members between annual ICID meetings	Online				1 x WebEx meeting	

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



