

**AGENDA FOR THE 6TH MEETING OF THE
WORKING GROUP ON ENVIRONMENT (WG-ENV)**

27 November 2021, 08:45-10:30 hours (Session I) and 11:00-12:45 hours (Session II)
Marrakesh, Morocco

Strategy Theme: Basin

Presented by the Chair

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: https://icid-ciid.org/inner_page/108

WG-ENV Agenda Item 1: Action taken report by 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 held in May 2021.
2. In September 2021, Chinese National Committee on Irrigation and Drainage (CNCID) has nominated Prof. Feng Qian, Dr. Zha Yuanyuan - Young Professional, and Dr. Yang Shihong - Young Professional (China) for the membership of 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.

WG-ENV Agenda Item 2: Brief of the virtual meeting organized in May 2021

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, Vice Chair and Secretary to organize virtual meeting.
5. The first virtual zoom meeting of WG-ENV was organized on 06 May 2021 wherein seven members were participated in the meeting. During the meeting, Chair discussed various activities being undertaken by the WG as part of Road Map to ICID Vision 2030, review paper and case studies for the publication, etc. Minutes of the virtual meetings of all work body have been uploaded on a dedicated webpage - https://icid-ciid.org/inner_page/152 Chair will provide further updates at the meeting.

WG-ENV Agenda Item 3: Road Map to ICID Vision 2030 – Status of future activities of the group

6. During virtual meeting, the group reviewed and updated the document keeping in view the mandate and availability of resources for achieving various activities (refer **Annex 2**). Vice Chair informed the group members on the present situation of review of the paper.

WG-ENV Agenda Item 3.1: Publication of the working group

7. During the virtual meeting in October 2020, Vice Chair presented the draft content of the review paper comprising the case studies concerning the “*Positive Ecosystem Services from Irrigation and Drainage Systems*” (**Annex 2**). The group widely discussed the content and accepted the content. The members were willing to contribute to the paper and be authors for the different sections and case studies. Vice Chair also invited members of group (including those who

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

could not attend the Zoom meeting) to suggest a new case study, if they wish so. It was decided that the paper may be further developed into ICID technical paper and/or uploaded on the WG website.

8. It was decided that the writings of case studies (about 400-500 words) will be delivered to Vice Chair and thereafter, the sections will be circulated among the authors in March 2021. It was also agreed that final section of the manuscript will be an important synthesis and discussion, exploring key recommendations of the WG to make to the international community. Vice Chair further suggested that due to journal specifications, space may be limited to the most relevant examples or possibilities (refer <https://onlinelibrary.wiley.com/page/journal/15310361/homepage/forauthors.html>).

9. During virtual meeting in May 2021, WG discussed widely the format of the publication whether it should be organized based on ecosystem services or measures such as irrigation, paddy fields, controlled drainage etc. In addition, it was stated that there would be enough material for a special publication focusing on positive ecosystem services of irrigation and controlled drainage. It was decided that a discussion paper will be written first and after that a specific publication will be proposed to the Journal Irrigation and Drainage. The draft discussion paper will be written by the Chair, Vice Chair and Secretary, Dr. Yutaka Matsuno, Dr. Aynur Fayrap and Dr Carl Walters were willing to contribute to the writing and also all the group members are welcome to contribute to it. In March 2021, Dr. Michael van der Laan (South Africa) has informed that so far 9 case studies have been submitted and as follows:

- (a) Reclaimed water as promising alternative for irrigation in Taoyuan – *Ming Kai*
- (b) Finland – controlled drainage and sub-irrigation are topical issues concerning the mitigation of GHG – *Seija Virtanen*
- (c) Flood control (Paddy Dam) – *Yutaka Matsuno*
- (d) Micro-climate – *Yutaka Matsuno*
- (e) Eco-tourism (social effect of paddy rice landscape on communities) – *Yutaka Matsuno*
- (f) Use of irrigation as part of a saline mine water management strategy: A case study for the Vaal Basin, South Africa – *Michael van der Laan*
- (g) Wastewater re-use case study: Angas-Bremer Water Management Area, South Australia – a case of improving the environment through community conjunctive management of water resources – *Richard G. Cresswell*
- (h) Eco-tourism case study: Ord River Scheme: Irrigation continues to under-perform, but irrigation infrastructure creates a #1 tourism attraction – *Richard G. Cresswell*
- (i) Filtration of nitrate from groundwater using smallholder irrigation – *Michael van der Laan*

10. Similarly, in February 2021, Dr. Giulio Castelli (Italy) has shown his interest and volunteered to cooperate for writing the review paper on “Positive Ecosystem Services from Irrigation and Drainage Systems”. He also shared a case study on “Mesoclimate regulation induced by landscape restoration and water harvesting in agroecosystems of the horn of Africa” to Chair, Vice Chair and Secretary. In June 2021, Dr. Giulio Castelli (Italy) has stressed once again about his interest to contribute a case study to the above paper. Chair will provide further updates at the meeting.

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

11. Prof. Hacho had volunteered to update the terms of Multilingual Technical Dictionary (MTD) related to the activities of the WG-ENV and submitted the updated terms to the members for their suggestions. Since Prof. Hacho has stepped down from the membership of the group, the issue of updating MTD was postponed to the next meeting. Chair may like to discuss with the members on updating MTD during the meeting.

WG-ENV Agenda Item 5: Dissemination - Sharing documents on website

12. During the virtual meeting in May 2021, Chair presented the draft of the content of the review paper comprising the case studies concerning the “Positive Ecosystem Services from Irrigation and Drainage Systems”. The members of the group made short presentations of their case studies as follows:

- (a) Dr. Yutaka Matsuno (Japan) presented three case studies viz. 1. Flood control (Paddy Dam), 2. Micro-climate, and 3. Eco-Tourism (Social effect of paddy rice landscape on communities);
- (b) Dr Giulio Castelli presented his case study concerning Micro-(meso) climate regulation due to irrigation/water harvesting in Ethiopia;
- (c) Dr Carl Walters presented a case study concerning integrated catchment management;
- (d) Dr. Seija Virtanen presented a case study concerning the effects of controlled drainage and subirrigation on greenhouse gas emissions;
- (e) Dr. Aynur Fayrap presented a case study from Turkey concerning controlled drainage effect on soil salinity.

13. ICID Central Office has launched a new dedicated webpage for the WG and is accessible at - https://icid-ciid.org/inner_page/108 which is being updated regularly including new membership list, agenda, minutes and presentations made during the meeting. Members are encouraged to share information, knowledge & experience and provide papers, presentations, articles, reports etc. related to any outcome of the research or development efforts in the respective fields for uploading on the WG website for wider dissemination.

WG-ENV Agenda Item 6: Workshop to be organized by the working group

14. During Bali meeting, WG discussed about the organization of the workshop and considered arranging a Workshop on “Ecosystem services of irrigation and drainage systems” which would give members an opportunity to present and discuss various case studies of ecosystems services for inclusion in the review paper. Due to COVID-19 pandemic, the group suggested that the organization of the future workshop will be discussed during the next meeting. Chair may like to discuss during the meeting about the organization of the workshop.

WG-ENV Agenda Item 7: Completion of the mandate and preparation of Scoping Document for the establishment of new WG

15. As the present tenure of the WG is going to be completed by 2021, it is envisaged to prepare a closure report of the working group. Seeing the importance of the WG, the group members may also like to discuss its new mandate in the context of future needs and in the light of requirements of preparing scoping document. The group may discuss for either seeking extension of the term of the WG or setting up new WG with new mandate and recommend to PCTA/IEC for approval.

WG-ENV Agenda Item 8: Next online meeting of the working group

16. It was decided that the Working Groups should organize a virtual meeting or a video-conference in between two face to face meetings of the IEC in order to enable the group to take a view of the progress made on their activities and at the same time allow contributions from those members who are unable to attend the face to face meetings (*refer item 2*). Chair in consultation with the group members may discuss about the organization of next virtual meeting of the group during the meeting.

WG-ENV Agenda Item 9: Any other business

17. **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.

18. **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. Membership of the group at 2019 and 2020 meetings

Sl. No.	Members	Member from	2019		2020		Participated in virtual meeting on 06 May 2021	Remarks
			Self	Contributed by mail	Self	Contributed by mail		
1.	Prof. dr. (Ms.) Charlotte de Fraiture, Chair (2016) (Netherlands)	2015	•				•	
2.	Dr. Michael van der Laan, Vice Chair (South Africa)	2018		•	•	•		
3.	Dr. Seija Anneli Virtanen, Secretary (2018) (Finland)	2015		•	•		•	
4.	Dr. Choi, Joong-Dae (South Korea)	2015						
5.	Dr. Aynur Fayrap (Turkey)	2015			•		•	
6.	Ir. Mohd Azmi Ismail (Malaysia)	2015			•			
7.	Dr. Muhammad Basharat Chaudhry (Pakistan)	2015						
8.	Dr. Fuqiang Tian (China)	2015	•					
9.	Mr. Mohammad Samiul Ahsan Talucder - Direct Member (Bangladesh)	2015						
10.	Dr. Yury Anatolyevich Mozhaiskii (Russia)	2016						
11.	Eng. (Ms.) P.M. Jayadeera (Sri Lanka)	2016						
12.	Mr. Usamah Hashim Witwit (Iraq)	2016						
13.	Prof. (Ms.) Eunmi Hong (South Korea)	2018			•			
14.	Dr. Ming-Kai Hsieh (Chinese Taipei Committee)	2018			•			
15.	Mr. Akhmadjonov Vokhidjon Mukhammedjonovich (Uzbekistan)	2019						
16.	Mr. Carl Walters (Australia)	2019		•			•	
17.	Dr. Hao-Che Ho (Chinese Taipei Committee)	2019					•	
18.	Engr. Reynaldo L. Baloloy (Philippines)	2019	•					
19.	Dr. Yutaka Matsuno (Japan)	2020			•		•	
20.	Dr. Kwang-Sik Yoon (South Korea)	2020			•			
21.	Dr. Giulio Castelli (Italy)	2020					•	
22.	Secretary General, ICID				# ²			

B. New nominations received from the National Committee

No.	Name	Country	Remarks
1.	Prof. Feng Qian	China	Recommended as member, subject to his presence else provisional member
2.	Dr. Zha Yuanyuan - Young Professional	China	Recommended as member, subject to his presence else provisional member
3.	Dr. Yang Shihong - 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
Goal A: Enable higher crop productivity with less water and energy							
A6. Strategy: 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	1 x WebEx meeting

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

