**MINUTES OF THE 8TH MEETING OF WORKING GROUP ON MODERNIZATION AND REVITALIZATION OF IRRIGATION SCHEMES (WG-M&R)**

08 October 2022, 14:00-15:45 hours (Session I) and 16:15-18:00 hours (Session II)

Adelaide, Australia

**Strategy Theme: Schemes**

Presented by the Chair

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**Year of Establishment:** 2015

**Completion of the Mandate:** 2023

**Scope of work:** To investigate, analyse, disseminate information on new developments and to formulate recommendations with respect to: Planning and preparation for modernization and revitalization of irrigation schemes; Interaction between modernization, revitalization, and required operation and maintenance; Cost sharing for modernization, revitalization and required operation and maintenance; Institutional and organizational framework required for modernization, revitalization, and operation and maintenance; Methods and techniques of the lining of conveyance and distribution canals; Canal control systems with respect to their automation, using the internet, mobile communication and remote monitoring in canal operation; Modification to improve communication, operational capacities, and flexibility in operation and maintenance of systems; Standardization and codes of practice in irrigation systems.

**Members present:**
1. Vice President Hon. Ian Makin, Chairman (UK);
2. Engr. Muhammad Sani Bala, Secretary (Nigeria);
3. Dr. Shinji Fukuda (Japan);
4. Dr. Toshihiko Kuno (Japan);
5. Mr. Mohd Yazid bin Abdullah represented by Eng. Mukhlis Zainol Abidin (Malaysia);
6. Ms. Mona Liza Delos Reyes (Philippines);
7. Mr. Jan Potgieter (South Africa);
8. Dr. Kwang-Sik Yoon (South Korea).

**Permanent Observer:** Mr. Alok Sikka – IWMI representative (India)

**New nominee present:** Dr. Hwa-Lung Yu (Chinese Taipei Committee)

**Observers:**
1. Engr. Abubakar Sirika Ahmad (Nigeria);
2. Engr. Bezzel Chitsungo (Zimbabwe)

**Webpage:** [http://icid-ciid.org/inner_page/117](http://icid-ciid.org/inner_page/117)

**WG-M&R Minutes Item 1:** Action taken report by Chair

1. At the outset, Chair Vice President Hon. Ian Makin welcomed the participants and gave a summary of the actions taken, including the coordination of papers for presentation at an international workshop in Adelaide, support to the core team of survey and norms of the core process of O&M, and development of guidelines on modernization.

2. The following nominations for the membership were accepted/provisionally admitted:

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<tr>
<th>Sl. No.</th>
<th>Members</th>
<th>Country</th>
<th>Accepted/ Provisionally admitted</th>
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<tbody>
<tr>
<td>1</td>
<td>Dr. Hwa-Lung Yu</td>
<td>Chinese Taipei Committee</td>
<td>Accepted¹</td>
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<tr>
<td>2</td>
<td>Dr. Usman Khalid Awan</td>
<td>Pakistan</td>
<td>Provisionally admitted, not present</td>
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<tr>
<td>3</td>
<td>Dr. Macdex Mutema</td>
<td>South Africa</td>
<td>Provisionally admitted, not present²</td>
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3. After discussion, it was agreed that the WG would not seek an extension of the mandate beyond the next Congress in 2023 but will suggest the restructuring of the activities of the Working Group to another (new) Working Group. Membership status is given in Annex 3 (page 29).

**WG-M&R Minutes Item 2:** Brief of the virtual meeting organized in February and May 2022

4. Three (3) virtual meetings were held in the year, one as a Working Group and twice as a task team, as recommended by ICID President Dr. Ragab. Chair informed the group that in total, 23 responses to questionnaire were received from 21 countries, additionally 4 from China and 3 from Iran. It was noted that respondents generally haven’t responded to all the questions. All the responses received to date have been populated into the SPSS software and sent to the members of the core group. Data analysis of the responses is expected to begin shortly.

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¹ Dr. Yu was not present but was represented by a colleague, but the Chair had met and discussed with him during the week, and he contributed by phone during the meeting

² Dr. Mutema was turned back at Mumbai, due to visa issues, and therefore could not travel to Adelaide. He was represented by Mr. Jan Potgieter
5. The Group agreed to organize another virtual meeting early in December 2022 to enable new members to meet with other members of the Group, and to (i) review progress made on the analysis of the Norms and Processes survey, (ii) assess progress towards the preparation of the guidelines on modernization, and (iii) schedule the dates for other virtual meetings during the year. The Chair will circulate the agenda for the proposed December 2022 virtual meeting in coordination with ICID Central Office.

**WG-M&R Minutes Item 3: Road Map to ICID Vision 2030 – Status of activities on modernization and revitalization**

6. The Group discussed the Road Map and agreed the focus of work to the end of 2023 will be the guidelines on modernization, the survey of norms and processes of O&M, and the contribution to the WIF4 in Beijing on Modernization. The group discussed the Road Map to ICID Vision 2030 and provided the latest updates to PCTA for its inclusion (refer to Annex).

**WG-M&R Minutes Item 3.1: Publication of the WG – Guidelines on modernization**

7. The major focus of the meeting was discussing the arrangement for drafting the guidelines. Members of the WG agreed to draft a specific section of the guidelines and the Chair will circulate to all members the draft structure and agreed task assignments.

8. The following members have volunteered to lead the preparation of the following topics:
   
   (a) Performance measure – Dr. Kuno Toshihiko  
   (b) Irrigation & drainage services (Item 3) – Engr. Muhammad Sani Bala  
   (c) Definition of modernization (Item 4) - Mr. Jan Potgieter  
   (d) Item 4.1 - Dr. Shinji Fukuda  
   (e) Management of irrigation system (item 4.3) – Mr. Yazid Bin Abdullah  
   (f) Financing (Item 5.2) – Chair VPH Ian Makin will follow up with colleagues from the World Bank/ADB  
   (g) Changing needs (Item 5.3) – VPH Ian Makin and Ms. Mona Liza Delos Reyes  
   (h) Stakeholders (Item 5.4) - Mr. Jan Potgieter and Dr. Shinji Fukuda

**WG-M&R Minutes Item 3.2: Develop norms of O&M of Irrigation systems**

9. Dr. Delos Reyes gave a summary of the response to the questionnaire circulated by the CO, informing the WG that 23 responses were received. These have been encoded into SPSS software, and the data set has already been shared with other members working on the norms for comments. Dr. Mohsen Barahimi contacted the Chair after the meeting to inform the core group that IRNCID is collating additional questionnaires from schemes in Iran and will forward the completed templates once it is available.

10. Dr. Shinji Fukuda informed the meeting that they are working on additional questionnaires with irrigation systems in Japan, and he made a short presentation on data availability for land improvement districts.

11. The Group agreed to have a virtual meeting to discuss progress on both the guidelines and norms on the second Monday of December 2022 in coordination with the Central Office.

**WG-M&R Minutes Item 3.3: Condensed overview of Key books, manuals, and Guidelines**

12. The Chair drew attention to the publications added to the WG website by the CO and encouraged members to recommend other relevant publications. This can be sent to the Chair or to ICID Central Office directly.

**WG-M&R Minutes Item 3.4: Exchange of information, knowledge & networking**

13. WG organized the International Workshop on Modernizing Irrigation and Drainage Services on 6 October 2022 in Australia with a focus on the arrangements for the provision of irrigation services (see Item 5). The chair encouraged members to share relevant publications, reports, and documents related to the mandate of the group to the ICID Central Office for uploading on the WG website. These papers and presentations will also contribute to the completion of the Guidelines document.

WG-M&R Minutes Item 4: Updating Multilingual Technical Dictionary (MTD)

15. Dr. Mohsen Barahimi has been contributing to updating the MTD over the course of the year. The Chair enjoined members to consider contributing and if any member has come across any definition that needs translation can also contact the Chair or the Central Office. IRNCID is negotiating with various universities to control the translations before sending them to ICID, and the translation process is also being followed up.

WG-M&R Minutes Item 5: Adelaide 2022 – International workshop – publication of results of survey findings, review of progress towards guidelines document

16. The International Workshop on Modernizing Irrigation Services held in Adelaide attracted over 30 abstracts of which 12 papers were received and 12 were presented. About 40 participants attended the workshop. The papers and presentations will be available on the website of group. It was proposed to consolidate the papers and presentations into PDF format including a short introduction and conclusion section for wider dissemination.


17. The WG discussed the option to hold the workshop in Beijing but concluded that, given the focus of WIF4 on modernization, the WG members will seek to contribute to discussions and panel sessions on each of the Themes of WIF4. The guidelines will be published in the draft ahead of WIF4.

WG-M&R Minutes Item 7: Any other business

18. As a new initiative, ICID has launched a new website (https://icid-ciid.org) to meet the new web technologies. Members were requested to review and update their information using their credentials and help ICID Central Office to maintain accurate information.

19. Regarding the World Irrigation and Drainage Schemes (W&DS), Chair encouraged members to urge all irrigation and drainage scheme owners, managers, and researchers across the world and especially in their respective countries for contributing to the register. The review process and other details were outlined on the portal <https://wip.icidevents.org/> in detail.

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## 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 A: Enable higher crop productivity with less water and energy
#### A1. Strategy: Modernizing irrigation systems
1.4 Preparation and presentation of Case studies Compilation of Case Studies 6 Case Studies 5 case studies presented 5 Case Studies Selected case studies to address key missing aspects Edited volume of case studies – published on the ICID website Authors of case studies
1.6 Develop Guidelines for Modernization of Irrigation systems Guidelines (This is to be reviewed and possibly revised in Mexico in 2017) Release Guidelines in WIF3 Release Guidelines Lead Authors (Ian Makin, Dong Din, Sani Bala)
#### A2. Strategy: Improving O&M of Irrigation Systems
2.1 Advocacy paper to draw attention to the need of adequate resources for O&M Advocacy paper
2.2 Develop norms of O&M of irrigation systems Technical Report Survey developed and submitted for distribution to ICID NCs Survey to be sent out by CO – Q1, 2022 Final report on Norms and processes – presented at WIF 4, Beijing Core writing team, led by Mona Liza del le Reyes
### Goal B: Be a catalyst for change in policies and practices
#### B1. Strategy: Supporting development of appropriate policies
1.9 Prepare position Paper on Key Issues on Modernization of Irrigation Schemes Position Policy Paper of ICID
### Goal C: Facilitate exchange of information, knowledge and technology
#### C1. Strategy: Providing knowledge sharing platform for AWM professionals
1.5 Organize Workshops, Seminar and Symposium on modernization Compilation of proceedings Main Theme of Congress, Inputs to Congress Full-day workshop on modernization International Workshop in Adelaide in 2023 Ian Makin
### Goal F: Facilitate capacity development
#### F4. Strategy: Developing and sharing AWM knowledge
4.4 Condensed overview of Key books, manuals and Guidelines Book Overview Ongoing – all members of WG_M&R

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