

**MINUTES OF THE 11TH MEETING OF THE
WORKING GROUP ON WATER AND CROPS (WG-WATER & CROP)**

15 August 2018, 11:00-12:30 hours
Saskatoon, Saskatchewan, Canada

Strategy Theme: On-Farm

Presented by the Chairman

Year of Establishment: 2007

Completion of the Mandate: 2019

Mandate: To promote the efficient use of water in crop production, to provide input to test crop water models, to investigate the use of energy crops for bio-fuel production, to develop techniques for rainfall harvesting, to promote the multifunctional use of water in paddy (rice) cultivation, to investigate the adaptation of agriculture to climate change and to promote low input agriculture.

Members Present: (1) VPH Dr. Ragab Ragab (UK), Chairman; (2) VPH Laurie C. Tollefson (Canada), Vice-Chairman; (3) Dr. Kaluvai Yella Reddy (India), Secretary; (4) Mrs. Gao Hong (China); (5) Ir. Adang Saf Ahmad (Indonesia); and (6) Prof. Won-Ho Nam (Korea).

Observers: (i) Mr. Syaiful Mahdi (Indonesia); (ii) Dr. Chung-Feng, Ding (Chinese Taipei); (iii) Ir. Haili Wang (China); (iv) Ir. Guohua Zhang (China); (v) Dr. Kazumi Yamaoka (Japan); (vi) Ir. Hakibu M. Tanko (Canada); (vii) Ir. Arif Frank Alfaeay (Indonesia); (viii) Prof. Sylvester Mpandeli (South Africa); (ix) Dr. Madhav Belbase (Nepal); (x) Ir. Su, Mei Yuan (Chinese Taipei); (xi) Ir. Chou Chao Chin (Chinese Taipei); (xii) Mr. Anuj Kanwal (India); (xiii) Mr. R.K. Agarwal (India); (xiv) Ir. Mochammad Amaron (Indonesia); (xv) Mr. Abdul (Indonesia); (xvi) Ir. Narges Zohrabi (Iran); and (xvii) PH Saeed Nairizi (Iran).

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

WG-W&C Minutes Item 1: Action Taken Report by Chair

1. The Chair welcomed the members and briefly presented the action taken report on the decisions and proposals made at its last meeting in Mexico City, Mexico in October 2017.
2. The Chair informed the members that the paper written by his student using the SALTMED has been published in Irrigation and Drainage Journal and received Best Paper Award for the year 2018.
3. The Egyptian National Committee of ICID (ENCID) has nominated Prof Dr. Zeinab Hussien Behairy (Egypt) for the membership of the WG. She was accepted as Provisional member since she was not available at the Canada meetings. Dr. Chung-Feng, Ding (Chinese Taipei) nominated by Chinese Taipei (CTCID) and Dr Kazumi Yamaoka nominated by Japan (JNCID) introduced themselves in the meeting and were accepted as members of the WG. The Membership status is given in **Annex 3 (page 51)**.

WG-W&C Minutes Item 2: Road Map to ICID Vision 2030: Activities on efficient use of water in crop production

4. The Chair discussed and briefed the activities of the WG such as Goals/Strategies, Actions, Outcomes/Outputs, Milestones and assigning Lead Persons as listed in the Annex. He informed the efforts are being made continuously in realising the objectives/milestones.

WG-W&C Minutes Item 3: Multi-functionality of water uses in paddy (Rice) cultivation

5. The Chairman informed that the reports are awaited form South Africa and Italy for completing the Technical Report of the WG. Prof. Sylvester Mpandeli (South Africa), present in the meeting, was requested to obtain the report from Dr. Rensburg in South Africa. The Chair reminded Dr Graziano Ghinassi (Italy), who was available elsewhere, about his commitments towards the submission of the paper for the Technical Report.

WG-W&C Minutes Item 4: Updating Multilingual Technical Dictionary (MTD)

6. Dr. P. Soman (India), Member of WG was not available to apprise on the progress on Updating Multilingual Dictionary (MTD). It was decided to remind and request him for the updates.

WG-W&C Minutes Item 5: International Workshop in August 2018 at Saskatoon, Canada

7. The Chair informed the members that the WG intended to organize an International Workshop titled 'Improving the Water Productivity within the Water Energy Food Nexus' during the Saskatoon, Canada meetings but did not take place since the theme of the workshop was well covered under sub-theme 1: Competing Water Demands' (1.3 *water–food–energy nexus*) of the international conference at Saskatoon, Canada. The workshop on the same theme will now be organized during Third World Irrigation Forum (WIF3) to be held in September 2019 at Bali, Indonesia. It was decided to invite papers from India, Canada, Italy, Japan, China Taipei, South Africa and others.

WG-W&C Minutes Item 6: ICID-IWRA Collaboration

8. The Chair informed that the International Water Resources Association (IWRA) is now looking forward for new collaborations between ICID and IWRA which needs to be worked out for mutual benefit. Vice Chair Laurie Tollefson (Canada) may explore the opportunities.

WG-W&C Minutes Item 7: Publications of the Working Group

9. WG discussed the possibility of publication of selected papers from past International Workshops (2013 and 2015) and the proposed International Workshop on 'Improving the Water Productivity within the Water Energy Food Nexus' to be held during WIF3 at Bali, Indonesia in September 2019 with the support from IWRA. Attempts may also be made to complete the Technical Report of the WG referred to in Item 3.

WG-W&C Minutes Item 8: Disseminate of activities of WG**WG-W&C Minutes Item 8.1: Website of the Group**

10. The Chair informed that the SALTMED software is available on ICID website for anyone to access and use. He requested all the members to send relevant papers and contributions to him for uploading in the website.

WG-W&C Minutes Item 8.2: Web-based Seminar/e-discussions

11. The Chair encouraged the members to use platforms such as e-discussions, web-based seminars on the relevant topics based on the mandate of WG. The Chair requested the members to come forward and develop and conduct the webinars/e-discussions in 2018-19 in the area of their specialization. Dr Reddy was requested to coordinate and report.

WG-W&C Minutes Item 9: Any other business**New Sub- topic 'Water Use and Productivity':**

12. PH Dr Saeed Nairizi (Iran) informed the members that the water requirements of the greenhouse crops are still estimated in a traditional way. In view of the rising competing demands and scarcity of water for agriculture, there is a need to work out actual water requirements for various crops under greenhouse conditions. In view of this, it is proposed to create a new sub-topic 'Water Use and Productivity' under the WG mandate to work out water requirements of different crops under greenhouse conditions. The 'Task Team' responsible for this sub-topic will be composed of: VP Dr K.Yella Reddy, PH Dr Saeed Nairizi, VPH Dr Ragab, and Dr. Chung-Feng, Ding (Chinese Taipei).

13. Further, Mr. Syaiful Mahdi (Indonesia) emphasized on the importance of 'Effective Rainfall' in Crop Water Requirement as part of the rain-fed agricultural water management. The issue was discussed and it was decided to add this sub-topic also to the mandate of the WG. Mr. Syaiful Mahdi will lead the task in cooperation with other members.



Annex [Appendix XXIV, Item 2]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-WATER & CROPS

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Resolution Lead Person
Goal A: Enable higher crop productivity with less water and energy							
Strategy 5: Supporting water productivity enhancement	5.3 Develop guidelines on efficient use of water in crop production	Guidelines	Outline of guidelines – introduction	Release the first draft guidelines	Finalise the draft guidelines	To publish it	Merge Item 5 and B1. Dr Marco Arcieri (Italy)
Goal B: Be a catalyst for change in policies and practices							
Strategy B1: Supporting Development of Appropriate Policies	1.13 Technical Report on Efficient Use of Water in Crop Production	Report	Prepare the first draft report for discussion	Release the second draft report	Finalise the draft report	To publish it	Dr Marco Arcieri (Italy)
Goal C: Facilitate exchange of information, knowledge and technology							
Strategy C3: Promoting Regional Cooperation	3.2 International Workshop/seminar on 'Improving Water Productivity in the frame work of Water Energy Food Nexus'	Workshop proceedings	Announcement of workshop	Orgnaising Workshop in Canada	Publication of papers in the Special Issue of the Journal		VPH Laurie C Tollefson (Canada)
Goal D: Enable cross disciplinary and inter-sectoral engagement							
Strategy D2: Developing Technical Documents in Non-technical Language	2.2 Crop – Water- Energy Nexus	Technical Report		Workshop		Workshop	Dr K Y Reddy (India)
Goal E: Encourage research and support development of tools to extend innovation into field practices							
Strategy E2: Strengthening Extension Services with AWM information							Dr Nader Heydari (Iran)
Strategy E3: Developing and Promoting Tools of AWM	3.1 Support research and development of modelling tools	Development of suitable Models, Sensors, Tools for field use	Prepare action plan	Draft report on various developments	Consolidation and final report		Dr Ragab Ragab
Goal F: Facility Capacity Development							
Strategy F3: Technical Training of Young Professionals from Member countries	3.9 Training on Crop Water Models Aqua Crop	Conduct Training workshops	Training workshops		Training workshops		All Members are responsible.



