

**Minutes of the 10th Meeting of the
WORKING GROUP ON WATER AND CROPS (WG-WATER & CROP)**

12 October 2017, 13:30-15:00 hours (Session-I)
12 October 2017, 15:30-17:00 hours (Session-II)
Mexico City, Mexico

**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 Ragab Ragab (UK), Chairman; (2) VPH Laurie C. Tollefson (Canada), Vice-Chairman; (3) Dr. Kaluvai Yella Reddy (India), Secretary; and (4) Dr. Marco Arcieri (Italy)

Observers: (i) Ir. Wang Haili (China); (ii) Ir. Wang Shaohr (China); (iii) Prof. Won-Ho, Nam (Korea); (iv) Dr. Anne Teoleslhi (Italy); (v) Dr. Hossein Dehghanisanij (Iran); and (vi) Dr. Graziano Ghinassi (Italy)

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

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

1. The chair briefly presented the action taken report on the decisions and proposals made at its last meeting in Chiang Mai, Thailand in November 2016.
2. The Korean National Committee on Irrigation and Drainage (KCID) nominated Prof. Won-Ho Nam (Korea) for the membership of the WG. Prof Nam introduced himself to the group and was formally accepted as a member of the WG. During the meeting of the WG, it was noted that the provisional members (5) of the group have not been contributing to the activities of the WG and hence recommended their membership to be discontinued. The concerned NCs and other NCs of ICID may be invited to nominate new members. Membership status is given in **Annex 7 (page 55)**.

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

3. The Chair informed the purpose of draft Action Plan 2030 of the WG and importance of the **Goal 1: Enable higher crop productivity with less water and energy (1.1 Develop guidelines on efficient use of water in crop production)** and its relevance to the activities of WG. Action Plan for WG-WATER & CROP, as given in the **Annex**, was discussed thoroughly, reviewed for importance of each activity, set milestones for various activities and actions to achieve the outcomes.

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

4. Chairman informed the members about the earlier decision of the Working Group to bring out a 'Technical Report' based on papers contributed by its members in areas such as: (a) efficient use of water in crop production, (b) crop water models, (c) multifunctional water use in paddy, and (d) rainfall harvesting and energy crops.
5. NCs of China, Indonesia and Philippines have contributed their papers for the 'Technical Report' of the WG. Further, the ICID Central Office requested the members/NCs from Korea, Thailand and Taiwan to contribute their papers in the area of 'Multi-functionality of water use in paddy (Rice) cultivation' in their countries for enriching the 'Technical Report' of the working group. Dr K Y Reddy (India) informed that the draft document on '*Efficient Use of Water in Crop Production*' prepared by him has been submitted to the Chair. The Chairman advised the Secretary of the WG to send reminder mails to Dr. Graziano Ghinassi (Italy) and Dr. Leon van Rensburg (South Africa) requesting their reports.

WG-W&C Minutes Item 4: Publications of the Working Group

6. WG discussed to publish a Special Issue of IRD Journal of selected best papers from the past WG organised International Workshops but dropped the idea due to high costs involved in producing a special Issue. However, few selected papers may be submitted for publication to the IRD Journal.

WG-W&C Minutes Item 5: Updating Multilingual Technical Dictionary (MTD)

7. The group discussed about updating of MTD. However, since Dr. P. Soman (India) was not present in the meeting, the progress could not be reported. It was decided to remind Dr. Soman to complete the task. All the other members were encouraged and requested to take-up the relevant parts for updating.

WG-W&C Minutes Item 6: Issues related with Water-Energy-Food-Nexus**WG-W&C Minutes Item 6.1: International Workshop in August 2018 at Saskatoon, Canada**

8. The group discussed the issue of organizing an International Workshop/Seminar titled “*Improving the Water Use Efficiency within the Water-Energy-Food-Nexus*” during the 69th International Executive Council (IEC) meeting and International Conference in August 2018 at Saskatoon, Canada. VPH Laurie Tollefson (Canada) will leave for inclusion of the workshop in the program of the conference. It was elaborately discussed and recommended to change the title of the workshop to “*Improving the Water Productivity within the Water-Energy-Food-Nexus*”. The following deadlines were set for conducting the workshop successfully:

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| (i) Call for Papers | : | December end 2017 |
| (ii) Extended Abstract submission | : | February 2018 |
| (iii) Acceptance & Communication | : | April 2018 |

WG-W&C Minutes Item 6.2: ICID-IWRA Collaboration

9. The WG discussed about the joint activities with ICID-IWRA collaboration, such as: (i) jointly organizing the Seminar mentioned in Item 6.1 and (ii) bring out a Special Issue of the selected papers from the International Workshop with financial support from IWRA.

WG-W&C Minutes Item 7: Dissemination of activities of WG**WG-W&C Agenda Item 7.1: Website of the Group**

10. The Chairman informed that the website of the WG has been updated. The members of the Group were requested to contribute to enrich the website. Dr Reddy (India) informed of some of their publications from ‘ClimaAdapt Project’ which may be relevant to the work-body activities. Dr. Reddy agreed to provide the soft copies of (i) Policy briefs and (ii) Water education: schools and Colleges for uploading on the webpage of WG.

11. WG Chair informed that the SALTMED, developed as part of Water4Crops project online distant learning course, was uploaded and can be accessed at WG website: <http://wg-crop.icidonline.org/> and Forum website: www.saltmed.createaforum.com.

WG-W&C Agenda Item 7.2: Web-based Seminar/e-discussions

12. During the WG meeting, Chair encouraged the members to use the platforms such as e-discussions, web-based seminars on the relevant topics based on the mandate of the WG. The Chair requested the members to come forward and develop a ‘Concept Note’ and actually conduct the webinars/e-discussion in 2018 in the area of their specialization. Dr Reddy was requested to co-ordinate and prepare the action plan.

13. WG Chair further informed the members that for discussions among the members during the year, ICID provides a free platform of webEx online meetings. The members appreciated the development and decided to use this facility in 2018.

WG-W&C Minutes Item 8: Any other business

14. The Chairman informed the members about the latest developments made in the field of estimation of crop water requirement from the actual field data. He made presentations on the following two topics:

- (i) Improving Irrigation and Drainage Efficiency Using Eddy Covariance and Scintillometry Technologies;
- (ii) Estimation of Crop Water Requirement Using the Cosmic-Ray Soil Moisture Observation System (COSMOS).

15. WG Chair explained the use of these methodology for different fields related to hydrology aspects. The house appreciated the contributions made by the Chair and thanked him profusely.

16. The chair requested the members to prepare presentations on suitable topics emerging from+ the mandate for the future workbody meetings.



Annex [Appendix Item XXVI, 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 Tollefsen (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.

