

**AGENDA FOR THE EIGHTH MEETING OF THE
WORKING GROUP ON IRRIGATED AGRICULTURE UNDER
DROUGHT AND WATER SCARCITY (WG-IADWS)
Beijing, China
11 September 2005 : 09:00-12:30 hours**

Members : (1) Dr. S. Nairizi, Chairman (Iran); (2) Dr. G.R. Backeberg, Vice Chairman (South Africa); (3) Mr. F. Dimick, Secretary (USA); (4) Dr. Ragab Ragab (Great Britain); (5) Dr. J.M. Rodriguez-Chaparro (Spain); (6) Dr. S. Szalai (Hungary); (7) Mr. A. Villocel (France); (8) Ing. Barakat Al Dagher (Syria); (9) Prof. R.P. Serralheiro (Portugal); (10) Mrs. Mu Jianxin (China); (11) Dr. Hussein El Atfy (Egypt); (12) Mr. Pulat Umarov (Uzbekistan); (13) Mr. Anthony John Horton (Australia); (14) Dr. Abdul Majeed (Pakistan); (15) Dr. Jasna Sostaric (Croatia); (16) Dr. Graziano Ghinassi (Italy); (17) Dr. D.K. Paul (India); (18) Dr. T. Watanabe (Japan); (19) Secretary General, ICID.

Observers : (i) Prof. J.M. de Jager, Executive Team on Irrigation under Limited Water Availability (South Africa); (ii) Dr. S. Taniyama, Chairman, Asian Regional Working Group; (iii) WMO representative; (iv) Prof. L. Vermes, European Regional Working Group; (v) World Bank representative; (vi) FAO representative.

Working Group website: <<http://www.wg-iadws.icidonline.org>>.

Item 1 : Confirmation of the minutes of the 7th meeting of the Working Group

The minutes of the 7th meeting of the Working Group held at Moscow (2004) will be confirmed.

Item 2 : Review of the membership of the Working Group

Nominations of Prof. F.A. Adeniji (Nigeria) and Dr. Muhammad Ashraf (Pakistan) were postponed to Beijing (2005) meeting as both nominees were neither present nor represented at the Moscow (2004) meeting. Their CVs will be presented at the meeting for consideration. National Committees of Nigeria and Pakistan have been advised (1 December 2004) to represent them at the meeting in Beijing (2005), in case candidates are not present.

As per records of Central Office, Dr. J.M. Rodriguez-Chaparro (Spain), Dr. Eng. Barakat Al.Dagher (Syria), and Dr. Jasna Sostaric (Croatia), were neither present nor represented during the last two meetings or more. Therefore, as per By-law 3.1.7, members not contributing to the activities of the Working Group by attendance or correspondence for two consecutive years shall be replaced in consultation with the concerned National Committees. The concerned National Committees have not responded to numerous calls from ICID Central Office. It is for consideration if the offer for their membership can be withdrawn. WG may discuss the issue.

Prof. R.P. Serralheiro (Portugal) has been unable to attend meetings in the past but has contributed a paper on 2 February 2005 under Sub-Theme 2.

Attendance of members at meetings in 2003 and 2004 is kept at **Annex 1**. It may be noted that representation of a member of the Working Group by any other representative of the concerned National Committee is not deemed to be a contribution by a member. Refer to Annex 1 of PCSP OA Agenda (page A-10).

A. CONTINUING ITEMS

Item 3 : Review of progress by coordinating countries about sub-theme activities of the Working Group

**Sub-Theme 1 : Survey of publications on irrigation under condition of drought and water scarcity
(Coordinator : Mr. Anthony Horton, Australia)**

Mr. Anthony Horton (Australia) sent the document on IADWS Bibliography and the same was forwarded to the members of WG-IADWS as desired by Chairman of the Group with a request to send comments and suggestions for improvement. Responses are awaited. Coordinator may provide further update on his report on Bibliography.

Sub-Theme 2 : Develop/select appropriate indices to describe and quantify the implications of drought and aridity in relation to agricultural, ecological, social, economic and political issues (Coordinator : Dr. D.K. Paul, India)

Dr. Ricardo P. Serralheiro (Portugal), WG member sent (3 February 2005) a report on "Indices to describe and quantify drought and aridity in Portugal". The report has been forwarded to the coordinator of sub-theme 2, Chairman and Secretary of the WG for consideration during Beijing (2005) meeting. Coordinator may provide further update on his report on Indices for IADWS.

Sub-Theme 3 : Develop guidelines for – (i) Assessment of drought on irrigated agriculture (ii) Development of policies and management strategies for various drought and water scarcity situations (Coordinator : Dr. G.R. Backeberg, South Africa)

Dr. Backeberg intended to organize a workshop on "Country Experiences regarding Drought Management Policies" during first quarter of 2005 in South Africa. He informed (1 February 2005) that he had several meetings with senior officials in Department of Agriculture but the department was not in a position to support the workshop. Dr. Backeberg, however, indicated that he will continue his efforts in getting support.

In order to fulfill the requirements of Sub-Theme 3, he has commissioned a short project on generic policy guidelines and management strategies for various drought situations, based on national and international best practices. Dr. Backeberg will apprise the WG members on the workshop in South Africa and outcome of the short project.

Sub-Theme 4 & 5 : Investigate the application of long term weather forecasting for drought prediction and economic viability of drought early warning systems and Investigate and report on suitable technologies and agro-irrigation practices for the utilization of non-conventional water resources under conditions of drought and water scarcity (Coordinator : Dr. Ragab Ragab, UK in cooperation with Dr. Hussein El Afty, Egypt)

Dr. Hussein El Afty (Egypt) provided an update of work being done by them on long term weather forecasting during Moscow (2004) meeting. A report was being prepared which was near completion in 2004. Relevant information/data from the workshop on "Water Harvesting and Sustainable Agriculture" will be included in the report. The Central Office has requested this information (on 1 February 2005) for circulation among WG members. Further, the outcome/proceedings of the two workshops, namely; (i) Most Effective Water Conservation Techniques at National and Regional Scales and (ii) Non-Conventional Water, held in Cairo, Egypt in December 2004 were requested. If made available, it would be useful for WG members.

The Central Office is in contact (1 February 2005) with Dr. T. Watanabe (Japan) for his assistance in the activities of Sub-Theme 4 and 5. Response is awaited.

The Central Office has requested Dr. Ragab Ragab (UK) to present his report on Sub-Theme 4 and 5 for consideration during the meeting of WG at Beijing (2005). Response is awaited.

Sub-Theme 6 : Dissemination of products of this Working Group (Coordinator : Dr. S. Nairizi, Iran)

Dr. Nairizi successfully organized the workshop on "Water Harvesting and Sustainable Agriculture" during Moscow (2004) meetings. Dr. Nairizi will further provide a framework for completing the mandate of the Working Group during Beijing (2005) meeting.

Item 4 : Compilation of the "General Questionnaire on the Water Status of ICID member countries"

The Chairman briefly discussed the completed questionnaires submitted by India, Hungary, Uzbekistan, Lithuania, Australia, South Africa, Iran, Japan and Italy during Moscow (2004) meetings. The Pakistan National Committee of ICID (PANCID) has submitted (29 March 2005) their questionnaire for consideration during Beijing meeting. Questionnaire from Chinese National Committee (CNCID) is, however, awaited. Other countries including USA have been requested to complete their questionnaires as soon as possible in order to finalize the draft report in time for Beijing (2005) meeting.

Item 5 : Co-operation with other Working Groups

(a) With European Regional Working Group (ERWG)

The Chairman was pleased to exchange information with ERWG Work Team on "Drought Mitigation Strategies". He continues to support the work with this Working Group which has been very helpful in the mandate of WG-IADWS.

(b) With Working Group on Sustainable Use of Natural Resources for Crop Production (WG-CROP) and Work Team on Use of Poor Quality Water for Irrigation (WT-PQW)

In order to cooperate with WG-CROP and WG-PQW in developing Guidelines for Crop Production under Water Limiting conditions, the following countries were nominated for various topics as below :

1. Food production under limited water supplies : Italy & China
2. Remote sensing : Spain & Japan
3. Non-conventional water resources : Iran

The Chairman continues to support the work with these Working Groups to utilize their capabilities in developing IADWS mandate.

(c) With WG-ON-FARM

Dr. Graziano Ghinassi (Italy) requested WG-IADWS Chairman to contribute to ON-FARM Manual on the system performance under external constraints; water scarcity (Practice of deficit and supplemental irrigation) and salinity (use of saline irrigation water; soil salinity) since irrigated, agriculture under water scarcity conditions is the main interest of WG-IADWS. He invited Chairman to participate/review other topics as well.

Chairman will apprise WG members on above cooperation.

Item 6 : Involvement of Young Professionals

The President of ICID invited all the Young Professionals to get involved in at least one Working Group in order to activate the WG tasks since Montpellier meeting. Involving young professionals is a continuous and dynamic process and therefore, WG needs to continue finding ways and means to involve more young professionals in the activities of WG.

Ms. Mu Jianxin, a Young Professional from China, is an active member of WG-IADWS since 2000. The WG appreciates her contributions.

Chairman will explore further ways and means to cooperate young professionals.

Item 7 : Review of progress on implementation of ICID Strategy on Vision

During deliberations at Seoul (2001) and Montreal (2002), the WG members felt that 1242 Mha, which is about 82% of the world cropped area, did not have conventional irrigation supplies and therefore, dependent on local rainfall to meet the crop water requirements. Such conditions were more prevalent in drought prone and water scarce regions of the world. The WG organized a workshop on "Water Harvesting and Sustainable Agriculture" during Moscow (2004) meetings. The outcome of this Workshop is very relevant to the ICID Strategy on Vision.

Item 8 : Activity plan - Rolling Plan

The work plan (**Annex 2**) was revised upto 2006 during Moscow (2004) meeting. WG may like to discuss and revise activities of various sub-themes. In order to sum-up the work of WG, Chairman desires to develop a framework, which may include all the documents provided so far alongwith recommendations of workshops organized by the WG. The Chairman is in contact with WG members for their feedback and will provide a draft framework for consideration during Beijing (2005) meeting. . FAO will be requested to provide some support for completing and publishing this final WG document. An interim meeting will be held between the Beijing and the Malaysia meeting to monitor the progress of this document.

Item 9 : Workshops organized by WG-IADWS

A workshop on "Water Harvesting and Sustainable Agriculture" was successfully organized by WG during Moscow (2004) meetings.

Dr. G.R. Backberg, Vice Chairman, WG-IADWS informed (1 February 2005) that he had several meetings with senior officials in the Department of Agriculture for organizing and hosting an International Workshop in South Africa but unfortunately, the Department is not in a position to support such a workshop.

Item 10 : Publications in Progress

Proceedings of the workshop on "Water Harvesting and Sustainable Agriculture" held at Moscow (2004) will be published and will be soon available.

Item 11 : IADWS – Newsletter

The newsletters are published each year. The third Newsletter of the Working Group was distributed at the Moscow (2004) meeting. The fourth Newsletter of the WG was published in February 2005 and has since been uploaded on WG website. WG members are requested to give feedback and send contributions for the next newsletter.

Item 12 : Interim meeting

An interim meeting will be organized between the meetings of WG in Beijing (2005) and Malaysia (2006) for various WG activities.

Item 13 : Website of the WG-IADWS

Chairman Dr. Nairizi continues to update the website by adding information and papers. Electronic color photographs of Working Group members have been requested for the website. Responses are awaited.

Item 14 : Cooperation with other International and Regional Organizations

FAO has been supporting the activities of the WG. The Chairman and Central Office have tried for several years to get a representative from WMO to attend WG meetings. The Secretary General of WMO introduced Dr. A. Delji to represent WMO at the IADWS meeting in 2004 but he has not been able to attend meetings so far. The Chairman is in contact with World Bank for their support. The Chairman will apprise the WG members on above issues.

Item 15 : Cooperation with First South Asia Drought Project

IWMI has a new website (<http://www.cgiar.org>) on Drought Assessment and Mitigation in Southwest Asia. During Moscow (2004) meetings, Dr. B.R. Sharma (India), IWMI representative, gave a presentation on Drought Assessment and Mitigation in Western south Asia by International Water Management Institute (IWMI). The assessment focused on Western India, Pakistan and Afghanistan. The Chairman will apprise the WG members.

Item 16 : Any other business (with the permission of the Chair)

- Dr. Nairizi, Chairman visited Central Office in March 2005 and held discussions with Secretary General and other professionals on various issues. He delivered a lecture on "Drought Management Strategies : Risk Management versus Crises Management" at Central Water Commission (CWC) of India at New Delhi. Mr. R. Jeyaseelan, Vice President of ICID and Chairman, Indian National Committee of ICID (INCID) and Chairman, Central Water Commission welcomed Dr. Nairizi. The lecture was attended by senior staff and many other invited dignitaries.
- The Central Office shared (15 March 2005) e-mail addresses of all WG members with Md. Bazza (FAO) for circulating some relevant reports. Response is awaited.

- **The International Center for Underutilized Crops (ICUC) moves to Sri Lanka**

The ICUC's Headquarters has now been relocated from the United Kingdom to Sri Lanka, with effect from April 2005. The ICUC is now co-located and hosted by IWMI at its Headquarters in Colombo, Sri Lanka.

Established in 1992, the ICUC is an autonomous, non-profit, scientific research and training center. The Center addresses ways of increasing the use of underutilized crops for food, medicinal and industrial products, and also for environmental conservation. It provides expertise and acts as a collaborative institute for tropical, sub-tropical and temperate crop development. The ICUC operates through regional offices and works in close collaboration with national partners for sustainable technology development for products and marketing of underutilized crops. The global program of ICUC will continue to be run through its existing network in Africa, Asia, Europe and Latin America. For more information on ICUC's Program, please contact Dr. Nazmul Haq (director_icuc@cgiar.org) or visit the ICUC website : www.civil.soton.ac.uk/icuc/

**WORKING GROUP ON IRRIGATED AGRICULTURE
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Attendance of Members at 2003 and 2004 Meetings

Sr. No.	Members	Member from	2003		2004	
			Self	Contributed by mail	Self	Contributed by mail
1.	Dr. S. Nairizi, Chairman (Iran)	2000	•		•	
2.	Dr. Gerhard R. Backeberg, Vice Chairman (South Africa)	1999	•		•	
3.	Mr. Frank Dimick, Secretary (USA)	1998		•	•	
4.	Dr. R. Ragab (UK)	1998	•		•	
5.	Dr. J.M. Rodriguez-Chaparro (Spain)	1998				
6.	Mr. S. Szalai (Hungary)	1998		•		
7.	Mr. A. Villocel (France)	1998	•			•
8.	Dr. Eng. Barakat Al.Dagher (Syria)	1999				
9.	Prof. R.P. Serralheiro (Portugal)	1999				
10.	Mrs. Mu Jianxin (China)	2000	•		•	
11.	Dr. Hussein El Atfy (Egypt)	2001	•		•	
12.	Mr. Pulat Umarov (Uzbekistan)	2001	•		•	
13.	Mr. Anthony John Horton (Australia)	2002	•		•	
14.	Dr. Abdul Majeed (Pakistan)	2002				
15.	Dr. Jasna Sostaric (Croatia)	2002				
16.	Dr. Graziano Ghinassi (Italy)	2003	•			
17.	Dr. D.K. Paul (India)	2003		•		•
18.	Dr. T. Wtanabe (Japan)	2003		•	•	
19.	Secretary General, ICID			•		
Permanent Observers						
1.	Prof. J.M. de Jager (Executive Team on Irrigation under Limited Water Availability)					
2.	Dr. S. Taniyama (Chairman, Asian Regional Working Group)					
3.	Representative from WMO					
4.	Prof. L. Vermes (European Regional Working Group)					
5.	Representative of World Bank					
6.	Representative from FAO		•		•	

WORKING GROUP ON IRRIGATED AGRICULTURE UNDER DROUGHT AND WATER SCARCITY (WG-IADWS)

Action Plan for Sub-Themes 1 to 6

Themes No.	Co-coordinating country / Coordinator	2002 –2003	2003 –2004	2004 –2005	2005 –2006
1. Survey of publications on irrigation under condition of drought and water scarcity	Australia/ Mr. A. J. Horton	<ul style="list-style-type: none"> • Appoint a task coordinator and start survey. 	<ul style="list-style-type: none"> • Continue survey and submitte the progress report at the WG meeting in 2004 	<ul style="list-style-type: none"> • Continue the survey and submitte the result to ICID Bibliography by consulting the chairman and presenting at WG meeting in 2005. 	<ul style="list-style-type: none"> • Publish the final report. • Coordinating with the editorial team.
2. Develop select appropriate indices to describe and quantify the implications of drought and aridity in relation to agricultural, ecological, social, economic and political issues.	India/ Dr.D. K. Paul	<p>Contact member countries to prepare a country report on the following subjects.</p> <ol style="list-style-type: none"> 1. Local indices for drought. 2. Frequency and severity of drought occurrence. 3. An estimate of drought damages in following sectors. <ul style="list-style-type: none"> • Agriculture • Ecology • Urban and rural communities. • Socio-political issues. 4. Review of the contributions received from different member countries. 5. Prepare a progress report on the subject to be presented at the WG meeting in 2002. 	<ul style="list-style-type: none"> • Prepare an overall report for all member countries • Revise the draft according to the comments received, workshop held at Montpellier and present the result at the WG meeting in 2004. 	<ul style="list-style-type: none"> • Organize a panel of experts to finalize report on the subject. • Final report to be submitted at the WG meeting in 2005. 	<ul style="list-style-type: none"> • Publish the final report and disseminate the publication. • Coordinating with the editorial team.

Themes No.	Co-coordinating country / Task Coordinator	2002 –2003	2003 –2004	2004 –2005	2005 -2006
3. Develop guidelines for- <ul style="list-style-type: none"> Assessment of drought on irrigated agriculture Development of policies and management strategies for various drought and water scarcity situations. 	South Africa/ Dr. Gerhard R. Backeberg	<ul style="list-style-type: none"> Comments on the draft document by the member countries. Launching research on the topics by member countries or appropriate organization. Continue activities related to the workshop preparation. Hold the workshop at IEC Meeting in 2003. 	<ul style="list-style-type: none"> Continue the compilation of the comments received from the members countries on the draft documents. A preliminary report and frame work for the final report will be prepared by Dr. Backeberg to be presented at WG meeting in 2004. 	<ul style="list-style-type: none"> Appoint a panel of expert to review and prepare the final report based on the workshop outcome and the preliminary report prepared by WG members Seek contribution for publication of the report. The Final document will be presented at the WG meeting in 2005. 	<ul style="list-style-type: none"> Publishing the final guideline in co-operation with contributing organization. Coordinating with the editorial team.
4. Investigate the application of long term weather forecasting for drought prediction and economic viability of drought early warning systems.	Egypt/ Dr. H. El Atfy in cooperation with Dr. R. Ragab	<ul style="list-style-type: none"> Make an Inventory of current methods available to predict drought and implementation of drought early warning system. Present a progress report at the WG meeting in 2003. 	<ul style="list-style-type: none"> Initiate contact with FAO, IWMI, WMO, International Panel on Climate Change (IPCC), and augment the available finding of the past half-century. Prepare the outlines of a draft publication by the Working Group, to be presented at the WG meeting in 2004. 	<ul style="list-style-type: none"> Prepare and publish draft document on drought prediction. Distribute it among the interested parties and solicit their views and suggestions. Present the final report at the WG meeting in 2005. 	<ul style="list-style-type: none"> Publish the final document and present at the WG meeting in 2006. Coordinating with the editorial team.

Themes No.	Co-coordinating country / Task Coordinator	2002 –2003	2003 –2004	2004 –2005	2005 –2006
5. Investigate and report on suitable technologies and agro-irrigation practices for the utilization of non-conventional water resources under conditions of drought and water scarcity.	UK/ Dr. R. Ragab in cooperation with Dr. H. El Atfy	<ul style="list-style-type: none"> Decided on the appropriate research topics and potential contributor at WG in 2003 meeting. The results of this year activities and conducted researches will be presented in 2003 WG meeting. Compiled the information to be presented in this meeting. 	<ul style="list-style-type: none"> Collect information concerning the use of fog, dew, cloud seeding, polymers in soil and other technologies for the utilization of unconventional water resources and reduction of water losses. Continue research activities and present results during WG meeting in 2004. Appoint a panel of expert in this meeting to conclude and provide a state-of-the-art of subject. 	<ul style="list-style-type: none"> The pannel of experts in collaboration with Dr. R. Ragab and the Chairman will provide the final document to be presented at WG meeting in 2005. 	<ul style="list-style-type: none"> The outcomes of these sub-theme activities will be published and disseminated within concerned countries. Coordinating with the editorial team.
6. Dissemination of products of this Working Group.	Iran/ Dr. S. Nairizi	<ul style="list-style-type: none"> Co-coordinating with sub-theme activities. Organizing interim and workshop in Tehran. Preparing a workshop to be held in Moscow with collaboration of FAO. 	<ul style="list-style-type: none"> Co-coordinating with sub-theme activities and organizing panel of experts. Holding workshop at Moscow 2004 jointly with FAO. 	<ul style="list-style-type: none"> Co-coordinating with sub-theme activities and panel of experts. Seeking the assistance of FAO for publication of the WG final outcome. 	Publishing and dissemination of products of the WG by organizing a editorial team and conducting interim meeting for monitoring the progresses