

Agenda for the Fourth Meeting of the
WORKING GROUP ON WATER MANAGEMENT IN WATER STRESSED REGIONS
(Erstwhile WG-IADWS) WG-DROUGHT
 Tehran, Iran
 16 October 2011: 13:30:17:00 hours
Strategy Theme: Basin

Date of Establishment: 2008

Completion of the Mandate : 2014

Mandate:

- (i) Drought Management Strategies: To capture field experiences of the implementation of drought risk management strategies.
- (ii) Coping with water scarcity
 - Critical evaluation of the validity of the crop water requirement computations based on climate data as a tool to be used in coping with water scarcity;
 - Approaches and strategies for incorporating economical justification when deciding on the amount of water to be allocated for agricultural production;
 - Re-defining, as necessary, the conventional irrigation efficiency concept; and
 - Design, operation and maintenance of sand dams – Under-ground water reservoirs.
- (iii) Rainfall management for sustainable agriculture: Innovation and implementation of smart rainfall management technologies.

Members: (1) Vice President Hon. Franklin E. Dimick, Chairman, 2009 (USA, 2008); (2) Mr. Mohammad Sadegh Jafari, Vice-Chairman, 2009 (Iran, 2008); (3) Dr. Abraham Mehari Haile, Secretary, 2009 (The Netherlands, 2008); (4) Vice President Dr. Ragab Ragab (UK, 2008); (5) Dr. Graziano Ghinassi (Italy, 2008); (6) Dr. T. Watanabe (Japan, 2008); (7) Prof. Chang-Chi Cheng (Chinese Taipei, 2008); (8) Dr. T.B. S. Rajput (India, 2009); (9) Dr. Benjamin de León Mojarro (Mexico, 2010); and (10) Secretary General, ICID.

Item 1 : Confirmation of the minutes of the 3rd meeting of the WG-DROUGHT

The minutes of the 3rd meeting held at Yogyakarta, Indonesia (2010) will be confirmed during the meeting.

Item 2 : Review of the membership

At the Yogyakarta meeting (2010), the memberships of Mrs. Jianxin Mu (China) and VPH Dr. Hussein El Atfy (Egypt) were terminated as these members have not been present /represented in the past two meetings of the WG and have not actively contributed. The Central Office requested (21 April 2011) Chinese National Committee of ICID (CNCID) and Egyptian National Committee of ICID (ENCID) to send fresh nominations for consideration during the Tehran meeting.

In response, Mrs. Jianxin Mu (China) expressed (25 April 2011) her support and willingness to continue to be a member of the WG and promised to contribute to its activities significantly. Given the interest of Dr. Mu and considering her being a member of erstwhile WG-IADWS, the WG may allow Dr. Mu to continue to be a member in the WG-DROUGHT. Response from Egypt is awaited.

The Nominations of Dr. Kiwood Park (Korea); Dr. Polevoy Anatoliy (Ukraine) and Dr. Teodoro Estrela Monreal (Spain) were deferred during New Delhi (2009) and Yogyakarta (2010) meetings, since they were neither present nor represented during the WG meeting. The Central Office invited (21 April 2011) the concerned National Committees to confirm above nominations or send a fresh nomination. Responses are awaited.

Pakistan National Committee of ICID (PANCID) had nominated (11 June 2010) Dr. Abdul Razzaq Ghumman (Pakistan) for the membership but his nomination could not be considered during the WG meeting at Yogyakarta (2010) since he was neither present nor represented during the WG meeting. Central Office invited (8 August 2011) PANCID to confirm his nomination or send a fresh nomination for the membership. Response is awaited.

The Chairman may apprise the members.

Item 3 : WG-IADWS (erstwhile) publication – “Irrigation under Drought and Water Scarcity”

The issue was discussed during the Yogyakarta (2010) meeting. VPH Dr. Nairizi (Iran) informed that the publication has been updated and the changes made were accepted by the authors. An Editorial Team has been set up to make final editorial and organizational changes and write the publication in a book format.

Mr. Mohammad Sadegh Jafari (Iran), Vice-Chairman of WG informed (2010) that the M/s. Mahab Ghodss Consulting Engineering Co. has offered to sponsor part of the publication cost and supplementary funding may be required from elsewhere.

The Central Office is in contact (21 April 2011) with VPH Dr. Nairizi to send the final edited version of the document/book together with consent to sponsor the publication so as to ensure its speedy publication. Response is awaited.

Item 4 : Drought management strategies in water stressed / scarce regions - Theme 1

Prof. Chang-Chi Cheng (Chinese Taipei) volunteered (2010) and accepted by the members to be the Theme Leader of Theme 1. Extensive discussions followed resulting in the following observations:

- Short term strategies and long term strategies need to be developed.
- Effects on society need to be considered in addition to the engineering aspects of drought management strategies.
- Water marketing must also be included in developing drought management strategies.
- Fish and wildlife and environmental concerns must also be included in developing drought management Strategies.
- Compilation of case studies would benefit the development of drought management strategies.
- Any long term strategy must include predictions of climate change effects.
- Environmental consequences of droughts must be considered when developing drought management strategies.

Prof. Chang-Chi Cheng informed (21 April 2011) that he will submit a brief outline of Theme 1 to the Chairman of the WG and discuss it with the other team members i.e. Dr. T. Watanabe (Japan) and Dr. Graziano Ghinassi (Italy) and Dr. Ragab (UK) (**Annex**). The Central Office is in contact (21 April 2011) with the members for their contributions.

Prof. Chang-Chi Cheng may apprise the members.

4.1 Presentation of draft material

Prof. Chang-Chi Cheng, Theme Leader of Theme 1, may present a brief outline of the activities under Theme – 1, together with the draft report on the subject.

4.2 Presentation of countries’ policies and strategies

Members may like to make their country presentations on policies and strategies for drought management.

Item 5 : Coping with Water Scarcity – Theme 2

Mr. Mohammad Sadegh Jafari (Iran) volunteered (2010) and accepted by the members to be the Theme Leader of Theme 2. Extensive discussions followed resulting in the following observations:

- Re-allocation of water during droughts will have legal ramifications due to water rights, etc.
 - There is a need to clarify how irrigation efficiency is determined and its validity.
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- Case studies would be helpful in compiling ideas on how to conserve water. The compilation and studying of these case studies may result in developing new concepts on irrigation practices.
- Validation and credibility of the appropriate computational methods of crop water requirement most adaptable to water stressed regions.
- Design criteria and practices of irrigation and drainage systems in water stressed regions.
- Existing international practices and experiences in modification and improvement of irrigation methods in water stressed regions.
- Existing international practices and experiences in collection and making use of non-conventional waters in irrigation in water stressed regions

As per Annex, the other members of the team are Dr. Abraham Mehari Haile (The Netherlands), Dr. Ragab (UK) and Dr. T. B.S. Rajput (India) to cooperate and assist the Theme Leader. The Central Office is in contact (21 April 2011) with the members for their contributions.

Mr. Mohammad Sadegh Jafari may apprise the members.

5.1 Presentation of draft material

Mr. Mohammad Sadegh Jafari, Theme Leader of Theme 2, may present a brief outline of the activities under Theme – 2, together with the draft report on the subject.

5.2 Presentation of countries' experiences in coping with water scarcity

Members may like to make their country presentations on 'Coping with Water Scarcity'. It may be noted that in case of Theme 1 'Strategy' refers to 'planning – how to deal with drought and water scarcity', while in Theme 2, 'Strategy' focuses on 'how to live with and practically cope with water scarcity'.

Item 6 : Rainfall Harvesting and Management for Sustainable Agriculture in Water Stressed/Scarce Regions – Theme 3

Mr. Clarke Ballard (Australia) volunteered (2010) and accepted by the members to be the Theme Leader of Theme 3. Extensive discussions followed resulting in the following observations:

- how to approach the Rainfall Management for Sustainable Agriculture,
- collecting data on how much rainfall is used in irrigated and non-irrigated crops,
- quantifying effective rainfall in crop production together with how to improve its effectiveness through technology,
- the need to change the cropping practices to effectively utilize the rainfall and,
- the need to document the successful studies in rainfall management.
- introducing new practices and experiences in rainfall management, including; cloud seeding, cloud harvesting, fog trapping, and fog harvesting, and
- Introducing experiences and practices in increasing rainfall effectiveness in supplying crop water requirement (i.e. rainfall forecasting and adapting irrigation system operation practices and its structural and managerial requirements).

The decision with regard to defining the "*appropriate level of water harvesting*" has been delayed (2010) till Tehran meeting in October 2011 in order to gain additional information on what is the appropriate level that falls within the overall scope of the mandate and activities of the WG.

As per Annex, the other members of the team are VP Dr. Ragab Ragab (UK), VPH Franklin E. Dimik (USA), Dr. Benjamin de León Majarro (Mexico). The Central Office is in contact (21 April 2011) with the members for their contributions.

Mr. Clarke Ballard, Theme Leader of Theme 3, may apprise the members.

6.1 Presentation of draft material

Mr. Clarke Ballard, Theme Leader of Theme 3, may present a brief outline of the activities under Theme – 3, together with the draft report on the subject.

Item 7 : Discuss WG activities as per timeline for completion of mandate

The following timeline was agreed upon during the Yogyakarta (2010) meeting :

Year	Status
2011	Theme Leaders present preliminary outputs in the WG meeting.
2012	Theme Leaders present intermediate outputs in the WG meeting.
2013	Theme Leaders and members present final findings possibly in a workshop.
2014	Theme Leaders and members synthesize their respective outputs into a single comprehensive WG document by also including, as necessary, any additional external information obtained from the workshop.

The Chairman may apprise the members.

Item 8 : Scheduling possible workshop in 2013

The WG may consider organizing a workshop during 2013 meetings in Turkey. The members may deliberate on topics/subtopic, scope, deadlines etc for the 2013 workshop.

Item 9 : Any other business

- **Invitation from WMO**

ICID Central Office had received (18 October 2010) an invitation from Dr. A.C. Tyagi, Director, Climate and Water Department of the World Meteorological Organization (WMO) for the meeting on the Integrated Drought Management Program held on 15-16 November 2010 at WMO Headquarters in Geneva, Switzerland. The meeting was organized by the WMO and Global Water Partnership.

The ICID Central Office circulated (20 October 2010) the information and program of the above meeting among the members of the WG. In response, VPH Dr. S. Nairizi (Iran) and Dr. Abraham Mehari Haile (The Netherlands), Secretary of WG-DROUGHT expressed their willingness to participate.

Dr. S. Nairizi and/or Dr. Abraham Mehari Haile may apprise the members.

- **Participation in Africa-Asia Drought Risk Management Peer Assistance Survey – UNDP**

The ICID Central Office had received (10 May 2011) an announcement from UNDP seeking participation in a short survey related to the recently commenced Africa-Asia Drought Risk Management Peer Assistance under the framework of the Integrated Drylands Development Programme.

The objective of the project was to create an enabling environment for inter-regional knowledge sharing among drought-prone countries – namely Africa-Asia Drought Risk Management Peer Assistance Network (AADP) - and facilitate the up-scaling of proven drought risk management (DRM) practices in the two regions. With financial support from the Japanese Government, AADP intends to provide a variety of peer learning and capacity development support to DRM practitioners. This will include activities such as the organization of annual forums, issuance of monthly newsletters, facilitation of online forums, organization of study tours and exchange visits, and the publication/ dissemination of DRM policy tools.

Central Office disseminated the information (12 May 2011) to members of the WG for their information and possibly participation.

- **UN-Water – Participation in the Specific Panel**

ICID Central Office had received (29 October 2010) the information on '*Dialogue for Water and Climate Change in COP 16*' from the Chair, UN-Water.

Central Office requested (01 November 2010) VPH Dr. Franklin E. Dimick, VPH Dr. Mark Svendsen and VPH Dr. Kamran Emami (Iran), Chairs of WG-DROUGHT, WG-CLIMATE and WG-CAFM, respectively, to participate in a specific panel like Floods, Drought and Climate Change.

The Chairman may apprise the members.

**WORKING GROUP ON WATER MANAGEMENT IN WATER
STRESSED REGIONS (WG-DROUGHT)**

Work Teams and its Membership

Themes of the WG-DROUGHT	Theme 1 : Drought Management Strategies in Water Stressed / Scarce Regions	Theme 2 : Coping with Water Scarcity	Theme 3 : Rainfall Harvesting and Management for Sustainable Agriculture in Water Stressed /Scarce Regions
Theme Leaders of the WG	Prof. Chang-Chi Cheng (Chinese Taipei), Theme Leader of Theme 1	Mr. Mohammad Sadegh Jafari (Iran), Theme Leader of Theme 2	Mr. Clarke Ballard (Australia), Theme Leader of Theme 3
Members of the Group Theme Leaders	VP Dr. Ragab Ragab (UK) Dr. Graziano Ghinassi (Italy) Dr. T. Watanabe (Japan)	VP Dr. Ragab Ragab (UK) Dr. Abraham Mehrari Haile (The Netherlands) Dr. T. B.S. Rajput (India)	VP Dr. Ragab Ragab (UK) VPH Dr. Franklin E. Dimik (USA) Dr. Benjamin de León Majarro (Mexico)