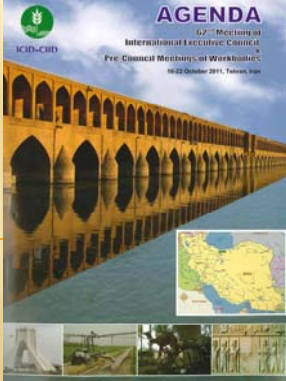


**WORKING GROUP ON DRAINAGE
COMPLETION OF THE MANDATE: 2013
THEME: SYSTEM**

Tehran meeting
Sunday 16 Oct, 2011
09:00 – 12:30




WHO WE ARE



Mandate

- To promote drainage as part of integrated water resources management; and
- To promote sustainable approaches for drainage and related projects through a balanced integration of (1) environmental, (2) economic, and (3) social and cultural aspects.

Meetings

- *Annually at the International Executive Council (IEC) Meetings of the ICID. The Working Group usually meets on the first or second day, for half a day.*
- *At our International Drainage Workshops:*
 - *IDW11: Egypt 2012*
 - *IDW12 Russia 2014*
- *Special meetings such as the Special Session on Drainage on 8 December 2009, 09.30-13.15 in New Delhi.*



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WHO WE ARE

Membership

- membership consists of country representatives, permanent representatives of organisations and other interested individuals
- A member is proposed via the national ICID committee
- A permanent observer may be proposed via his/her country or by an international organisation
- Everybody is welcome to drop-in during our meetings: observers

Activities


- International Drainage Workshops (IDWs)
- Special sessions on Drainage
- Articles in Journals
- Update State of drainage in the World
- Network via LinkedIn
- Have WEB meetings during the year as appropriate



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AGENDA


A.	General business	09:00 30 Minutes
B1.	Work plan	09:20 50 Minutes
B2.	International Drainage Workshops IDW11: Cairo 2012, Dr. Amer IDW12: St Petersburg, 2014, Mr. Yuri Yanko/Irene Bondarik Special workshop Adelaide 2012? IDW..., Mexico, Dr. Luis Rendón Pimentel, email	10:20 40 Minutes
	Coffee / Tea break (11:00 – 11:30)	11:30 30 Minutes
C.	Presentations	10:45 – 12:30 10 Minutes



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A. GENERAL (09:00 -09:20)


1. Confirmation minutes Yogyakarta
2. Apologies:
Jim Ayars, USA, Keizrul (Malaysia), Maticic, Keizer bin abdullah (Malaysia), Dr. E. Christen, Australia, Prof. H. Malano, Safwat Abdel Dayem (Permanent observers),
3. Review Membership
 - Members to be replaced/terminated
 - New members proposed:
Helena Aijo, Finland replacing Rauno Peltema who retired



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B. Workplan

1. Activities
 - ✗ disposal problems of drainage water in South Iran
 - ✗ updating database on drainage in the world
2. 11th and 12th drainage workshop
3. Website
 - ✗ new post, new registrations
 - ✗ invitation to provide statistics on drainage
4. bio-drainage and bio-saline agriculture



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Planning and Design of Drainage Systems

- 1.1 Integrated planning approach in agricultural drainage
- 1.2 Improved design theories for drainage systems
- 1.3 Subsurface drainage design (applied models)
- 1.4 Development of subsurface drainage design software for largescale installation
- 1.5 Use of GIS and remote sensing in planning and designing of drainage systems
- 1.6 Non-conventional drainage systems design (biological drainage, controlled drainage, closed basins).

2. Improvement of Drainage Technology and Techniques

- 2.1 Modernization of auxiliary structures (manholes, flushing, columns, outlet structures)
- 2.2 Modernization and automation of drainage systems construction
- 2.3 Adaptation of new technologies in the field of drainage investigations and installation
- 2.4 Drain envelopes materials (needs, selection, design, manufacturing,, construction)
- 2.5 Practical experience with non-conventional drainage systems (trenchless, biological, controlled drainage systems)
- 2.6 New technology for maintenance of drainage systems (pipe drains,open drains).

3. Drainage Management


- 3.1 Drainage flood management in rainfed areas
- 3.2 Drainage within the concept of integrated water resources management
- 3.3 Institutional aspects of drainage schemes implementation
- 3.4 Public-private partnership in drainage development and management
- 3.5 Sustainable development and modernization of land drainage management.

4. Environmental Aspects and Climatic Change

- 4.1 Impact of climatic change on drainage systems
- 4.2 Climatic change impacts on soil and water quality
- 4.3 Quantity of drainage water
- 4.4 Sea water level rise impact on deltaic areas
- 4.5 Monitoring and evaluation of climate change impact on agricultural drainage.

5. Research Development and Capacity Building

- 5.1 Innovations, technologies and best practices for increasing crops, land productivity and water saving.
- 5.2 Capacity development for modern drainage management
- 5.3 Research agenda for future land drainage management
- 5.4 Lessons learned from drainage projects (case studies) towards capacity building.
- 5.5 Capacity development and training for on-farm drainage



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C. PRESENTATIONS/ WORKSHOP

- × IRNCID
- × General discussion