

UNESCO-IHE
INTERNATIONAL INSTITUTE FOR WATER EDUCATION
DELFT, THE NETHERLANDS



SIC ICWC
SCIENTIFIC-INFORMATION CENTRE OF
INTERSTATE COMMISSION FOR WATER COORDINATION
OF CENTRAL ASIA



TRAINING OF TRAINERS on
“Capacity building for integrated water resources planning and
management for Central Asia”

Ashgabat, January 26-30, 2012

“Grand Turkmen” Hotel
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Day 1: Thursday January, 26 2012	
08:30 – 09:00	Registration of participants
09:00 – 09:15	Opening of the workshop: Mukhammedov A.Ya.– Deputy Minister of Water Resources of Turkmenistan
09:15– 09:30	N.N. Mirzaev - Regional Trainer of SIC ICWC, Capacity building for Integrated water resources planning and management for Central Asia
09:30 – 11:00	M.A. Nepesov – invited lecturer. World fresh water reserves. Water resources of Turkmenistan. Accounting principle of all types of water resources. Water problems (types, causes). Database on water resources. Monitoring and assessment of water objects and process (2 hours).
11:00 – 11:20	Coffee-break
11:20 – 12:05	G. Ovezmuradov - invited lecturer. Natural and climatic conditions of irrigated agriculture development in Central Asia. Features of the current situation in irrigated agriculture in the world and in the CAR. Infrastructure of irrigated agriculture (1 hour).
12:05 – 13:00	O. Djumadurdyev - invited lecturer. The forms and principles of water governance. Water management supply and demand for water. Indicators of water management. Water management and the integration of environmental requirements (1 hour).
13:00 – 14:00	Lunch
14:00 – 14:45	O. Djumadurdyev - invited lecturer. Features of the development and implementation of IWRM plans in Turkmenistan. Principles, tools and indicators of IWRM (1 hour).
14:45 – 15:40	D. Ataev – Features, principles and experience of the Basin water resources management, issues and prospects for cross-border cooperation (1 hour).
15:40 – 16:00	Coffee-break
16:00 – 17:30	Yo. Kepbanov - Fundamentals of International Water Law. System of law, the classification of legal systems, the system of international relations (2 hours).

Day 2: Friday January, 27 2012	
09:00 – 10:30	A. Berdiev - invited lecturer. Sources of International Law, the basic principles of International Law, norms of International Law, subjects of International Law, systematization of International Law, International Environmental Law (2 hours).
10:40 – 11:25	G. Ovezmuradov - invited lecturer. Ways to improve water management and agriculture of Turkmenistan. Forms and functions of the Ministry of Water Resources of Turkmenistan in the use and protection of water resources. The role and form of participation of government agencies, local authorities in the leadership of water distribution (1 hour).

11:25 – 11:45	<i>Coffee-break</i>
11:45 – 12:30	G. Ovezmuradov - invited lecturer. The influence of climatic factors on water consumption. The demand of agricultural crops for irrigation. Improvement of irrigation regime on agricultural crops in different soil and drainage conditions (1 hour).
12:30 – 13:30	<i>Lunch</i>
13:30 – 14:15	O. Djumadurdyev - invited lecturer. Operating hygrometry. Water accounting for water resources management (1 hour).
14:15 – 15:05	O. Djumadurdyev - invited lecturer. Organization and planning of water use on-farm and off-farm systems. Planning for water use at the farmers associations (FA). Adjustments of water use plans of farmers associations in the introduction of water recycling (1 hour).
15:05 – 15:25	<i>Coffee-break</i>
15:25 – 16:55	O. Djumadurdyev - invited lecturer. Compilation of water use plan on levels of administrative regions and main canals. Certification of irrigated fields, as a basis for effective management of water consumption. (2 hours)

Day 3: Saturday, January, 28 2012	
09:00 – 09:45	A. Berdiev - invited lecturer. International legal responsibility, the solution of international disputes and conflicts, the succession of States, international treaties, international organizations, international conferences (1 hour).
09:55 – 10:40	Ya. Pashiev - invited lecturer. Experience in management of water resources of transboundary rivers of Turkmenistan, case study of Amu Darya (1 hour).
10:40 – 11:00	<i>Coffee-break</i>
11:00 – 12:30	O. Djumadurdyev - invited lecturer. Water-saving irrigation technologies and irrigation technique. Improvement of traditional irrigation methods for efficient and productive use of water and land resources. Advanced irrigation technology and their applicability in Turkmenistan.
12:30 – 13:30	<i>Lunch</i>
13:30 – 15:00	M. Akmuradov – national trainer on Blocks #1, 2. Ways to improve the efficiency of irrigation systems. Inter-farm irrigation network. Farm irrigation network. Irrigation system in the irrigated area. Temporary irrigation network (2 hours).
15:00 – 15:20	<i>Coffee-break</i>
15:20 – 16:50	D. Ataev - national trainer on Block#3, 4. The principles of creation and use of automated systems of control over the allocation of transboundary water resources (2 hours).
Day 4: Sunday, January, 29 2012	
09:00 – 09:45	G. Ovezmuradov - invited lecturer. Role and tasks of the provincial

	hydrogeological and reclamation services in the maintenance of a favorable reclamation background of irrigated agriculture (1 hour).
09:55 – 10:40	N. Garaev - invited lecturer. The complex construction, water reclamation and agricultural activities to combat salinity (1 hour).
10:40 – 11:00	Coffee-break
11:00 – 11:45	Ya. Pashiev - invited lecturer. The organizational structure of inter-state water resources management of transboundary rivers of the Aral Sea basin. Economic mechanisms of water resources management in the Aral Sea.
11:55 – 12:40	M. Akmuradov – national trainer on Block #1, 2. Maintenance and repair of irrigation systems. Goals and objectives, the organization of operation of hydraulic structures and channels.
12:40 – 13:40	Lunch
13:40 – 17:10	Ch. Taganov - invited lecturer, D. Ataev - national trainer on Block #3, 4. Off-site practical training on rational use of water resources.
Day 5: Monday January, 30 2012	
09:00 – 09:45	D. Ataev - national trainer on Block#3, 4. Principles of Water Legislation of Turkmenistan (1 hour).
09:55 – 10:40	O. Nazarmammedov - invited lecturer. Control of water-salt balance and salinity of the irrigated lands. Monitoring of irrigated land. The database for evaluation of reclaimed land and the technical level of irrigation and drainage systems (1 hour).
10:40 – 11:00	Coffee-break
11:00 – 12:30	M. Akmuradov – national trainer on Block #1, 2. The system of payment for water services (forms, fees, fees for services). Economic incentives for water conservation. Need to develop and agree on a mechanism of distribution of operating costs for water facilities.
12:30 – 13:30	Lunch

Day 6: Tuesday January, 31 2011 – Departure	
09:00 – 09:45	Closing training seminar
09:45	Departure of participants