

Curriculum vitae

1. NAME Victor Dukhovny
3. NATIONALITY Uzbekistan

EDUCATION AND DEGREE:

1991 - Professor, High Attestation Commission of the Soviet Union
1990 – Dr. of Science, All-Union Institute of Hydrotechnik and Reclamation of Lands, Moscow, USSR. Title of dissertation: Integrated Water Management and Environment Protection of Rivers Basin.
1972 - Ph.D. All-Union Institute of Hydrotechnik and Reclamation of Lands, Moscow, USSR: Water Management, Development of Lands.
1956 – Master in Civil Engineering, Ukraine Institute of Water Management, Kiev, USSR

EMPLOYMENT

1993 - Present, Scientific Information Center of the Interstate Commission for Water Coordination of Central Asia (SIC ICWC), Director;
1980-1993 - Central Asian Scientific–Production Association of SANIIRI Director, Tashkent, Uzbekistan;
1977 – 1980 - Central Asian Development and Construction Corporation, First Deputy Head, Tashkent, Uzbekistan;
1973 - 1977 - Central Asian Scientific Research Institute of Irrigation - SANIIRI, Director ;
1965 - 1973 - Hunger Steppe Development and Irrigation Construction Association, Chief Engineer, Yangier, Uzbekistan;
1965-1965 - Board of the Reclamation and Development of Karakum Channel, Chief of Board, Tedjen, Turkmenistan;
1956 - 1962 – Construction Company in the Hunger Steppe Association, Executive Engineer, Chief Engineer, Yangier, Uzbekistan;

RESEARCH WORK:

- Water management on transboundary rivers;
- Water policy and basin's strategy for development of water resources in the Aral Sea basin, World Bank;
- Method of social-economic influence assessment of water development in arid zones;
- Concept of addressing the Aral Sea problems;
- Crop water requirements;
- Ecological consequences of irrigation in arid zones;
- Interrelation between irrigation and nature;

- Reconstruction of old irrigation systems;
- Control of soil salinity in Central Asia;
- Integrated development of new irrigation land in arid zone;
- Optimization of water management in river basin (on example of Syrdarya);
- Technology and organization of drainage works in Hunger Steppe;
- Search of optimal parameters for drainage systems;
- Optimization of a network of irrigation systems at design stage;

PATENTS: different types of irrigation machines and equipment: 32 in the Soviet Union; 2 in India; 3 in Uzbekistan

CONSULTING:

Swiss Development cooperation

Project IWRM Ferghana, 2001-2012, director

Project CAREWIB 2004 - 2012, director

Project Resp2 2010 -2012, consultant

Resource Analysis - Water management institutional framework in Central Asia - 2001.

UNDP – analysis of international organization activities - 1999-2000.

European Union:

- WARMAP Project of the EU TACIS Program – coordinator, 1995-1997;
- RIVERTWIN Project (A regional model for integrated water management in twinned river basins) under the EU 6th Framework Programme – project coordinator from Uzbek side, 2003-2007;
- EU-INCO-Copernicus project on irrigation management for combating desertification in the Aral Sea basin – project coordinator from Uzbek side, 2000-2002

World Bank:

- Water resources of North Afghanistan - 2002;
- Technical director of GEF Agency “WEMP 1” project - 1997...1999;
- Aral Sea basin framework, 1994;
- Pricing mechanism in water resources management in CAR, 1993;
- Water strategy for the Aral Sea basin-coordinator;
- Improvement of Water Management and Irrigation in India, IPTRID program, 1992;

Ministry of Water Resources of the Soviet Union:

- Drainage problems in Meskene region in Syria, 1989;
- Rehabilitation of Irrigation systems in region of Suyn, South Yemen, 1988;
- Water Management in the river Euphrat, Syria-Iraq, 1987;
- Development of drainage systems on the south of Ukraine, 1986;
- Agricultural and water development in Nicaragua under Ford Fund Organization, 1985;
- Drainage problems in delta of river Volga, 1977;
- Drainage problems in Haryana state, India, 1974;
- Drainage problems in Kura Araks Valley, 1966.

Activity connected with ICID

- Participation in 8 ICID Congresses, starting from 1969;
- Reports on 5 Congresses of ICID;
- Participation in 9 ICID regional Conferences;
- Chairman of topic in 1975 Congress in Moscow;
- Organizer of study tour in 1975 Congress in Moscow;
- Chairman of Scientific Committee of 1 Afro-Asian Conference of ICID in Tashkent, 1976;
- Chairman of topic session on Athens Congress 1978;
- Initiation of membership in ICID of 5 states of Central Asia (Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan);
- Member and deputy chair of ICID's Aral Sea working group;
- Member of ICID advisory group of IPTRID;
- Author of recommendation for improvement of IPTRID activity - 1999...2000;
- Member of drainage group of ICID;
- Two publications in "State -of-art" ICID, 1978...1981;
- Preparation of Water vision Central Asia region and presentation it at WWF 2 in Hague;
- Preparation of session "Water partnership in Aral Sea basin" at WWF 3 as cochairman;
- Vice-President of ICID since 2003;
- Honorable Vice-President of ICID since 2006.

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL ORGANIZATIONS:

- Members Advisory Board of EU DG Research.
- Active member, Academy of water science of Russian Federation;
- WWC, Governor;
- GWP – member of consulting group;
- INBO – member; of Steering committee
- IWRA – member of the Board of Directors
- International commission of Irrigation and Drainage, Honorable Vice-President;
- Presidium of Soviet Association of Land Reclamation specialists;

AWARDS AND PRIZES

- The Honor specialist on irrigation of the Uzbek Republic - 1970;
- State prize of Uzbekistan government in development and science and research - 1973.
- State prize of Soviet Union government for achievement in research and achievement in advanced technology - 1979;
- Award of excellence ICID 2002 and 2009;
- Award of Water voice, WWF 3, 2003, Japan;

LANGUAGE KNOWLEDGE

Language	Reading	Speaking	Writing
Russian	mother tongue		
English	fluent	fluent	fluent
Uzbek	fair	fair	fair

MONOGRAPHS:

1. "Water in Central Asia: past, present and future", V.Dukhovny, Joop de Schutter 408 pages, 2010, CNRS press.
2. «Integrated water resources management: from theory to real practice. Central Asian case-study». Edited by Prof. V.A.Dukhovny, Dr. V.I.Sokolov, Dr. H.Manthrithilake, Tashkent: SIC ICWC, 2008, pp. 364.
3. «Regional integrated water management model in twinned basins», "RIVERTWIN", Tashkent, 2008, 213 p.
4. Should we think about adoption to climate change in Central Asia? Dukhovny V., Sorokin A., Stulina G., Tashkent, 2008, pp. 11.
5. Assessment of Roghun reservoir's impact on water regime in the Amudarya river, Dukhovny V.A., Sorokin A.G., Tashkent, 2007, p. 128.
6. Irrigation management to combating desertification in the Aral Sea basin. Assessment tools. Tashkent, 2005, 422.
7. Drainage in the Aral Sea basin: towards sustainable development strategy, V.A.Dukhovny, with contribution from Kh.I.Yakubov, P.D.Umarov, Kh. Deineke. Tashkent, 2004, p. 316.
8. South Prearalie – new perspectives, V. Dukhovny, J. de Shutter, Tashkent, 2003, pp. 150.
9. Problems of sustainable water management in Aral Sea basin on the threshold of XXI century, 2002, pp.204.
10. Integrated water resource management in Central Asia, Tashkent, 2001, pp. 133.
11. "Reclamation of Lands and Water Management in Arid Lands", Tashkent, 1993, pp.169.
12. "Scientific-technical progress and reclamation of lands in Central Asia", Tashkent, 1985, pp.141.
13. "Water management complex (creation and development)", Moscow, 1984, pp.225.
14. "Irrigated complex in arid lands", Tashkent, 1983, pp.184.
15. "Drainage depth effects on the salinization of soil", "State of art, irrigation, drainage and flood control", Vol.2, New-Delhi, ICID, 1981.
16. "Horizontal drainage of irrigated Lands" with M.Baclushin, E.Tomin, Moscow, 1979, pp.245.
17. "Saline and alkaline soils, their use, improvement and related problems", "State of the art, irrigation, drainage and flood control", Vol.1, New Delhi, ICID, 1978.
18. "Subjugation of Hunger Steppe" with Jusupov, Abdulganiev, Sudorgin and others, Tashkent, 1976, republished in 1980, pp.368.
19. "Irrigation and development of Hunger Steppe", Moscow, 1973, pp.225.

ARTICLES AND REPORTS:

1. Water and globalization: case study of Central Asia, Journal Irrigation and Drainage, 2007.
2. Drainage in the Aral Sea basin, Journal Irrigation and Drainage, 2007.
3. Development of regional model for integrated management of water resources at the basin scale, Journal Physics and Chemistry of the Earth, Part A/B/C, 2007.
4. Prospects for Central Asia. Development – Integrated Water resources management as regional issues solution, Implementing Integrated Water Resources Management in Central Asia, 2007, Springer NATO, Science Series.
5. Integrated Water Resources Management in the Aral Sea Basin, Proceeding of the 2nd International Yellow River Forum on keeping Healthy Life of the River, Volume 11, 2005.
6. The Aral Sea basin – rumors, realities, prospects, Journal “Irrigation and drainage”, 2002
7. Formulation and analyses of regional strategy on land and water resources management in the Aral Sea basin, Proceedings of “Stockholm water Symposium”, 2002. V. Sokolov.
8. The principle of transboundary water quality management in the Aral Sea basin, The international meeting in Austria, 2001. The Aral Sea basin Integrated water resources management, Land Water International, # 101, 2002, Joop de Schutter.
9. Water Resources in Central Asia: current constraints and development potential, Vilma Horinkova, 2002
10. Strategy of transboundary return flow use in the Aral Sea basin, PROOF 64, 2001
11. Diagnostic Study of Water Management in Central Asia, 2001.
12. Drainage in the Aral Sea Basin: Past and future. Challenges Facing Irrigation and Drainage in the New Millenium, 20-24 June, 2000.
13. Return Waters of the Aral Sea Basin and possibilities of their utilization on the Base of "Green Desert" Program , 8th ICID International Drainage Workshop 31th Jan – 4 Feb, New Delhi, India, Proceedings Volume I, 2000.
14. Proposals on IPTRID Network Development . The learning society and water-environment. Paris, 2-4 June, 1999
15. Developing Regional Collaboration to Manage the Aral Sea Basin Water under International and Inter-Sectoral Competition. Water Sector Capacity Building: Concepts and Instruments A.A. Balkema/Rotterdam/brookfield/1999.
16. River Basin management in the Aral Sea Basin. International Workshop on River Basin Management The Hague, 27-29 October, 1999.
17. Brief analytical review of the International Fund for Aral Sea saving activity. Problems of desert development № 5, 1999.
18. Water Resource management, use and policies in the Aral Sea Basin. International Conference "Water Resource management, use and policies in Dry Areas. Amman, Jordan, 1-3 December, 1999.
19. Water saving as a main factor of stabilization of the Aral Sea Basin development. Reclamation and water economy , № 4, 1999.

20. Irrigation in the countries of the former Soviet Union in figures, Rome, 1997, FAO.
21. Drainage development in the arid zones of Central Asia, in NATO Series, V.12, Bos M.6 "The interrelationship between irrigation, drainage and the environment in the Aral Sea Basin", 1996, Kluwer Academic Publishers, 1997.
22. The problem of water resources management in Central Asia with regard to the Aral Sea situation, NATO Series in Ph.Miklin "Springer-Yerlag Berlin Hedelberg", 1996.
23. Interstate water legislation in the Aral Sea Basin, Proceedings of IX Congress IWRA, Montreal, 1997.
24. Development of the Caspian Aral Sea Program, Kluwer Publisher, 1997.
25. Aral sea plan of actions - 7 program for international donors, Tashkent, ICAS, 1994;
26. Aral Sea problems: review and decisions, Report Interstate Water Commission to ICID, Varna, 1994.
27. The Concept for the solution of Aral Sea problem and measures of the 5 states for improvement of ecological situation in the basin, Report Interstate Water Commission to ICID, Varna, 1994.
28. The reduction of the specific water expenditure on irrigation in Aral zone on the base of space consideration of interconnection "soil-water-plant", The Proceeding of international seminar in irrigation; Budapest, 1990.
29. Basin water resources management and use; for ECLA UN, Tashkent, 1989.
30. "No rechanneling, What is next?", "Soviet Life", # 9, New York, 1987.
31. Renovation of irrigation system as the effective means to solve socioeconomic problems in the arid zones of the USSR, Proceedings of 13th Congress of ICID, Rabat, 1987.
32. Specialties of integrated approach to irrigation development on desert lands, Report of seminar ESCATO, Tashkent,
33. Water resources of the Aral Sea basin and their utilization prospects, Proceedings of seminar "Problems of water resources development in arid zones", Moscow, 1981.
34. Organization of water and land development in Uzbekistan, Proceedings of seminar "Problems of water resources development in arid zones", Moscow, 1981.
35. Return flow and its formation with regard to irrigation problem development and irrigation system improvement, Reports of 3d Afro-Asia regional conference ICID, New Delhi, 1980.
36. Reclamation of salt effected irrigated lands in Central Asia - principles and practices, Proceedings of International Symposium "Salt affected soils", Karnal Delhi, 1980.
37. Desertification. USSR, Golodnya Steppe, a case-study of desertification, Proceedings of UNEP program of desertification, Oxford, New York, Toronto, 1979.
38. Control of salinity on irrigated lands, Report of 1st Afro-Asian Conference ICID; Tashkent, 1976.
39. Effect of irrigation on Syrdarya water regime and water quality; Arid land irrigation in developing countries: environmental problems and effects. International symposium, Alexandria, Egypt, 1976.

40. Total quantity: 228 publications, 22 patents of former Soviet Union.
and others.

11 postgraduate fellows received Ph.D. in Water Management, Economics and Agriculture.