

## Curriculum Vitae

**First Name:** Viacheslav; **Last Name:** Manukalo

**Date of birth:** February 2, 1950

**Title:** Dr, Ph D, As. Prof.

**Education:** 1975 – Master's degree (Surface Hydrology), Geographical Faculty of the Kyiv National University; 1984 - PhD, Candidate of Sciences (Hydraulic, Engineering Hydrology), the State Hydrological Institute, Leningrad, Certificate of the High Attestation Commission of the Soviet Union; 1993 - scientific title: “Senior Scientific Researcher” (Surface Hydrology, Hydrochemistry, Water Resources), Certificate of the High Attestation Commission of Ukraine.

**PhD thesis:** "Calculating the hydrographs of spring runoff for the small ungauged rivers of Ukraine and Moldova”.

**Professional Records:** July, 2011 – present: a) Senior Scientific Officer, Ukrainian Hydrometeorological Institute of the State Service Ukraine for Emergencies and the National Academy of Sciences of Ukraine, b) Hydrological Adviser of the Permanent Representative of Ukraine with the World Meteorological Organization; 2002 - 2011. Deputy Director of the State Hydrometeorological Service of Ukraine; 2000 - 2002. Head of the Department, Ministry of Environment and Natural Resources of Ukraine; 2000– 2006. As. professor of the Cathedra of Hydrology and Hydroecology of the Kyiv National Taras Shevchenko University; 1992- 2000. Head of the Departments, State Committee of Ukraine for Hydrometeorology; 1990 – 1992. Head of the Division, Ukrainian Research Institute on Water Management and Ecological Problems; 1979-1990. Research and Senior Scientific Officer, Ukrainian Research Hydrometeorological Institute; 1975-1979 - Engineer of the Hydrological Forecast Division, Hydrometeorological Service of Ukraine.

**Principal areas of professional duties as the Deputy Director of the State Hydrometeorological Service :** 1. Organization, development and implementation of scientific and technical policy in the State Hydrometeorological Service; 2.Coordination of researches which have been carried out by the State Hydrometeorological Service in the cooperation with others Ukrainian institutions in the area of hydrometeorology, climate researches, water resources, air and water pollution monitoring; 3. Organization and operational control of the hydrometeorological observation and forecasting systems, as well as the basic system of air and water (surface and sea waters) pollution monitoring; 4.Development of observation and forecasting methods and technologies used by the State Hydrometeorological Service; 5. International cooperation of the State Hydrometeorological Service in the area of hydrometeorological observation and forecasting, air and water pollution monitoring; 6. Staff education and training.

**Areas of scientific interests at present:** 1.Water quality and water quantity observation networks, hydrological forecasting, and warning systems; 2. Methods and technologies of water quantity and water quality measurement; 3. Assessment and forecasting of the anthropogenic impact on hydrological regime, water quantity and quality; 4. Development of methods and technologies of hydrometeorological service end- users. 5. Education and training programs.

**Membership in Professional Societies:** Secretary of the National Committee of Ukraine for the International Hydrological Program of UNESCO (IHP UNESCO); Member of the Commission on Hydrology of the World Meteorological Organization; Member of the International Association of Hydrological Sciences; Member of the European Geophysical Union.

**International conferences, other international events in the field of meteorology, hydrology and water resources:** XVII (1994, Hungary), XVIII (1996, Austria), XIX (1998, Croatia), XX (2000, Slovak Republic), XXI (2002, Romania), XXII (2004, Czech Republic), XXIV (2008, Slovenia), XXVI (2014, Germany) Conferences of the Danube Countries on the Hydrological Forecasting and Hydrological Bases of Water Management. In 2000, 2002, 2004 – member of the International Scientific Committees;

World Water Week (former Stockholm Water Symposium), 1994, 2002, 2004, 2006, 2008, 2009;

Meetings of the FRIEND IHP UNESCO- project Steering Committee (1996 - Paris, France; 2000 – Stockholm, Sweden, 2003 – Koblenz, Germany);

22<sup>nd</sup> General Assembly of the European Geophysical Society, 1997,. Vienna, Austria

3<sup>rd</sup> World FRIEND Conference, 1997, Postojna, Slovenia;

International Conference on World Water Resources at the Beginning of the 21<sup>st</sup> Century (UNESCO, Paris, France, 1998);

International Conference "Hydrological Challenges in Transboundary Water Resources Management", Koblenz, Germany, 2001;

15<sup>th</sup> (2002) and 21<sup>th</sup> (2014) Sessions of the Intergovernmental Council of the International Hydrological Program, UNESCO, Paris, France;

International Conference “From conflict to co-operation in the field of the international water resources management: problems and opportunity”, 2002, Delft, Netherlands;

International workshop “Hydrological network for integrated and sustainable water resources management”, 2003, Koblenz, Germany;

VI (2004) and VII (2013) All Russian Hydrological Congress, S. Petersburg;

International Conference on Integrated Water Resources Management, Tokyo, Japan, 2004;

International Conference on Hydrological Perspectives for Sustainable Development, 2005, Roorkee, India;

International Conference “Hydrological Hazards”, Bucharest, Romania, 2006 (member of the International Scientific Committee);

International Workshop “Hydrological Data Bases for Project FRIEND for North – Eastern Part of Europe”, Koblenz, Germany, 2007;

International Workshop “New technologies for flow discharge measurement”, World Meteorological Organization, Geneva, Switzerland, 2007;

11<sup>th</sup> International River Symposium. Brisbane, Australia, 2008

International Conference “Water and Health”. Lyon, France, 2008;

2<sup>nd</sup> Meeting of National Experts for the Protocol on Water and Health to the Convention of the Protection and Use of Transboundary Watercourses and International Lakes. Geneva, Switzerland, 2009;

American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2009;

Workshop: “Water and Climate Changes: How to Develop an Adaptation Strategy in Transboundary Basins”, Geneva, Switzerland, 2010;

Conference GREENHOUSE 2011 “The Science of Climate Change”, Cairns, Australia, 2011;

Second Workshop on Water and Adaptation to Climate Change in Transboundary Basins: Challenges, Progress and Lessons Learnt, Geneva, Switzerland, 2011;

XIV World Water Congress, Porto de Galinhas, Brasil, 2011;

Forum on Hydrology of the RA VI World Meteorological Organization, Warsaw, Poland, 2014.

**Publications:** more than 90 papers in Ukrainian and foreign scientific journals.

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V. Manukalo