



**IN MEMORY OF VLADISLAV IVANOVICH MONCHENKO
(02.04.1932–08.02.2016)**

The outstanding Ukrainian zoologist, Doctor of Sciences in biology, Full Member of the National Academy of Sciences of Ukraine Professor Vladislav Ivanovich Monchenko passed away on February 8, 2016.

V. I. Monchenko was born on April 2, 1932 in Moscow, in the family of Ivan Maksimovich, a design engineer, PhD, graduated from the Moscow Institute of Geodesy and Cartography and Antonina Yakovlevna Monchenko, a musician who sang on the radio and worked at the opera House.

During the World War II the family lived in Sverdlovsk (now Yekaterinburg), after a while they returned to Moscow, and in 1945 moved to Kiev, where Vladislav Monchenko entered the 4th form of the School No. 134.

After graduation from the high school in 1950 Vladislav successfully passed exams to both the Kiev Conservatory as a cellist and biological faculty of Taras Shevchenko State University of Kiev simultaneously. On the second year of education his interest in biology outweighed, and he left the music classes. After graduating from the Kiev University he became a doctoral student at the Institute of Zoology in Kiev. In 1962, V. I. Monchenko defended his doctoral thesis “Copepods (Copepoda) of the Middle Dnieper Basin”.

Vladislav Ivanovich most of his life was a zoologist of a fieldwork. The geography of his scientific expeditions, in particular, is reflected in the collection of shellfish from the Soviet Union territory including water areas of the Antarctic, Indian, and Pacific Oceans and Barents Sea.

The most important and rich materials he collected from the Caspian, Black Seas and the Sea of Azov. These journeys were often in exotic conditions of kayak tours, coastal excursions on motor-scooter and on foot. The thesis for Doctor of Science, the highest doctoral degree, entitled “The Free-Living Cyclopoids (Copepoda Cyclopoida) of the Ponto-Caspian Basin (fauna, ecology, zoogeographical and morphological and evolutionary analysis, phylogeny, systematics)” was one of the main results of decades of his scientific studies.

Contribution of V. I. Monchenko in the study of the fauna, systematics and zoogeography of copepods will have to be fully assessed. His faunal and taxonomic elaboration will remain in the golden fund of zoology. He described 37 new species, 9 new genera and one subfamily of Cyclopidae, which were recognized by all taxonomists in the world. Fundamental generalizations made by Vladislav Monchenko in zoogeography, evolution and ecology of copepods also gained international fame. Among them, a special place belongs to the phenomenon of copepod generic endemism of the Ponto-Caspian basin that significantly enriched the current ideas about the genesis of the Ponto-Caspian zoogeographic complex in the Black Sea and Sea of Azov.

His concept of copepods limbs regressive oligomerization as the main direction of the morphological evolution of this group is well known for specialists.

The concept of the cryptic species formation in copepods as a first stage on the way to the morphological species developed by V. I. Monchenko serves an important addition to the speciation theory. The idea of multifactor conditionality of seasonal induction and termination of diapause in cyclops is the outstanding achievement developed by V. I. Monchenko. These results are reflected in 191 scientific publications, including 8 monographs and textbooks. Among these works special mention should be made of monographs now recognized to be classic — Monchenko, V. I. 1974. Fauna of Ukraine. Vol. 27. Crustacea. Is. 3. Gnathostomatous Cyclopoida, Cyclops (Cyclopidae). Kiev: Naukova Dumka: 1–326 (in Ukrainian). Monchenko, V. I. 2003. Free-Living Cyclopoida Copepods of the Ponto-Caspian Sea Basin. Kiev, Naukova Dumka, 1–350. The list of

main works of V. I. Monchenko were published in the article: Anistratenko, V. V. 2012. Vladislav Ivanovich Monchenko (the 80th anniversary). *Vestnik zoologii*, **46** (2), 185–188.

In spite of so fruitful scientific activity Vladislav Monchenko devoted a surprising amount of time and effort to organization of science and teaching. For many years (1980–1987 and 1993–1999) he was in charge of the scientific work at the Institute of Zoology as its Deputy Director. He was a founder of the Department of Fauna and Systematics of Invertebrates at the Institute.

Particular attention should be given to Vladislav Monchenko as a scientific adviser. His high rigor and attention to details did not hinder the free development of future researchers. There was hardly a single person, who was neglected by the Teacher. He did not count the time spent on others, and we fully enjoyed his dependability. Happy are those of us who were trusted his editorial skills and drew useful lessons of scientific thoughts presentation on paper in apprenticeship years. Total under his supervision eight PhD dissertations were defended, and two of his students became Doctors of Science.

Vladislav Monchenko was a member of editorial boards in several international journals including the *Vestnik Zoologii* (Deputy Editor-in-Chief), *Acta Zoologica Bulgarica*, and other journals. He was the member of academic councils of Institute of Fisheries, Zhytomyr Pedagogical University, National Scientific Museum of Natural History and Institute of Evolutionary Ecology of the National Academy of Sciences of Ukraine, Specialized Doctoral Councils of the Institute of Zoology and Institute of Hydrobiology of the NAS of Ukraine for many years. V. I. Monchenko was a member of the Higher Attestation Commission of Ukraine.

Colleagues highly appreciate the personal merits of Academician Monchenko in science. Three genera and nine species of cyclopoid crustaceans are named in his honor. Furthermore, two species of terrestrial mollusks from Madagascar collection of Vladislav Monchenko were described and one of them was named after him.

New taxa introduced by Vladislav I. Monchenko

Euglenoidida (parasites of Copepods)

- Genus *Paradinemula* Monchenko, 1967
- Paradinemula polonica* Monchenko, 1967
- Genus *Mesastasia* Palienko & Monchenko, 1979
- Mesastasia mirabilis* Palienko & Monchenko, 1979

Crustacea

- Acanthocyclops americanus f. spinosa* Monchenko, 1961
- Bathynella natans ukrainica* Monchenko, 1968
- Acanthocyclops biarticulatus* Monchenko, 1972
- Bryocyclops (Palaeocyclops) jankowskajae* Monchenko, 1972
- Halicyclops longispinosus* Monchenko, 1974
- Halicyclops validus* Monchenko, 1974
- Subfamily Euryteinae Monchenko, 1975
- Genus *Sergiosmirnovia* (= *Smirnoviella*) (Monchenko, 1977)
- Sergiosmirnovia* (= *Smirnoviella*) *reducta* (Monchenko, 1977)
- Genus *Colpocyclops* Monchenko, 1977
- Colpocyclops dulcis* Monchenko, 1977
- Colpocyclops longispinosus* Monchenko, 1977
- Eucyclops persistens* Monchenko, 1978
- Genus *Cryptocyclopina* Monchenko, 1979
- Cryptocyclopina inopinata* Monchenko, 1979
- Cyclopina pontica* Monchenko, 1979
- Halicyclops cryptus* Monchenko, 1979
- Cyclopina parapsammophila* Monchenko, 1980
- Diacyclops cohabitatus* Monchenko 1980
- Acanthocyclops (Megacyclops) viridis oligotrichus* Monchenko 1980
- Cyclopina oblivia* Monchenko, 1981
- Genus *Cyclopinotus* (= *Cycloporella*) Monchenko, 1981
- Cyclopinotus* (= *Cycloporella*) *eximia* Monchenko, 1982
- Halicyclops cryptus secundus* Monchenko & Polischuk, 1982
- Sergiosmirnovia* (= *Smirnoviella*) *unisetosa* (Monchenko, 1982)
- Speocyclops cinctus* Monchenko 1983
- Diacyclops imparilis* Monchenko 1985
- Genus *Caspicyclops* Monchenko, 1986
- Caspicyclops mirabilis* Monchenko, 1986
- Speocyclops atropatena* Monchenko, 2010

V. I. Monchenko was awarded by Zabolotny Prize of the NAS of Ukraine (1975), State Prize of Ukraine (2007), and the title of Honored Worker of Science and Technology of Ukraine (2008).

Students and colleagues of Vladislav Ivanovich Monchenko will always miss his comments, advice, principled and supportive statements and speeches at the meetings of the Scientific Council of the Institute, and dissertations. The memory of this remarkable scholar, teacher and personality will be forever with us.

V. Anistratenko, I. Dovgal, N. Filimonova