



<http://dx.doi.org/10.11646/zoosymposia.9.1.4>

<http://zoobank.org/urn:lsid:zoobank.org:pub:6C9F10DF-2601-40C8-827B-F1FC7B06D91C>

In Memoriam

Tamara L. Poddubnaya (1930–2011)—Oligochaetologist



Tamara Poddubnaya (right) with Tarmo Timm during a visit to the Võrtsjärv Limnological Station in Rannu, Tartumaa, Estonia in 1974.

Dr. Tamara Leont'evna Poddubnaya (nee Protopopova) was born 18 February 1930 in Rostov-na-Donu, a large city on the Don River in Southern Russia. After graduating the Rostov University in 1953 she joined the Biological Station in Borok, which later became the Institute for Biology of Inland Waters at Rybinsk Reservoir, located on the Upper Volga River in Northern Russia. Here she spent the remaining 57 years of her lifetime, working in the same research institute. In 1962, she received her Cand. Biol. Sci. (= Ph.D.) degree in Moscow; her thesis (in Russian) was entitled, "Studies on the biology of mass species of tubificids (*Limnodrilus newaensis* Mich. and *Limnodrilus hoffmeisteri* Clap.) of the Rybinsk Reservoir".

In 1955 she married Artur G. Poddubnyj, a famous ichthyologist in the same institute. They had a son, Sergej (1956) and a daughter, Elena (1962). Their son, Sergej A. Poddubnyj is working as geographer in Borok while the daughter-in-law Larisa G. Poddubnaya is studying fish parasites.

Throughout her career, most of Dr. Poddubnaya's research involved zoobenthic communities in the Volga reservoirs, especially the aquatic oligochaetes. She published more than 40 papers between 1958 and 1990, mostly in her native Russian language. Although most of her publications focused on the ecology and reproductive biology of Tubificidae and Naididae, several addressed issues in oligochaete taxonomy. Of particular interest were her studies highlighting the taxonomic value of the notch usually observed in the prostomium of *Chaetogaster diaphanus*—correcting misinformation presented by Christina Sperber (1948) who had attributed this character to *C. cristallinus*.

She participated in the first and second International Symposia on Aquatic Oligochaete Biology (ISAOB) convened (respectively) in Sidney, British Columbia, Canada (in 1979, hosted by Ralph O. Brinkhurst at the Institute of Ocean Sciences), and Pallanza, Italy (in 1982, hosted by Giuliano Bonomi at CNR–Istituto Italiano di Idrobiologia). When flying to the first ISAOB in 1979, Dr. Poddubnaya, together with Drs. Antanas Grigelis and Tarmo Timm, inadvertently purchased air tickets between Moscow and Sydney, Nova Scotia (on the east coast of Canada) *instead* of Sidney, British Columbia (on the west coast), where this first international symposium was to convene. After spending a night in the Soviet general consulate in Montréal, and with the extraordinary, long-distance assistance from Ralph Brinkhurst, they reached the correct venue for this important first ISAOB symposium, one day later. When in Pallanza for the second ISAOB, Dr. Poddubnaya and Nonna P. Finogenova (another oligochaetologist from Russia) were hosted for several days by Dr. Bonomi, engaging in collaborative discussions on the life cycles of tubificids.

After retiring from science, Dr. Poddubnaya spent her last years in Borok. She passed away on 30 January 2011 at the age of 80.

Publications authored / co-authored by Dr. Poddubnaya

- Mordukhaj-Boltovskoj, F.D. & Poddubnaya, T.L. (1958) On the winter studies on benthos of the estuary region of Rybinsk Reservoir. *Byulleten' Instituta biologii vodokhranilishch*, 2, 7–15. [In Russian]
- Poddubnaya, T.L. (1958) Condition of zoobenthos of the Rybinsk Reservoir in 1953–1955. *Trudy biologicheskoy stancii "Borok"*, 3, 195–213. [In Russian].
- Poddubnaya, T.L. (1958) Some data on the reproduction of tubificids. *Doklady Akademii Nauk SSSR*, 120(2), 422–424. [In Russian].
- Poddubnaya, T.L. (1959) On the population dynamics of tubificids (Oligochaeta, Tubificidae) in the Rybinsk Reservoir. *Trudy Instituta biologii vodokhranilishch* 2(5), 102–108. [In Russian].
- Poddubnaya, T.L. (1959) Autotomy and regeneration in tubificids. *Byulleten' Instituta biologii vodokhranilishch, AN SSSR* 5, 15–16. [In Russian].
- Poddubnaya, T.L. (1961) Materials on the nutrition of mass species of tubificids in Rybinsk Reservoir. *Trudy Instituta biologii vodokhranilishch*, 4(7), 219–231. [In Russian]
- Poddubnaya, T.L. & Sorokin, Ju.I. (1961) Depth of the optimal feeding layer of tubificids in connection with their movement in sediment. *Byulleten' Instituta biologii vodokhranilishch*, 10, 14–17. [In Russian]
- Poddubnaya, T.L. (1962) On consumption of tubificids (Oligochaeta) by fishes. *Voprosy Ikhtiologii*, 2(3), 560–562. [In Russian]
- Poddubnaya, T.L. (1962) On vertical distribution of *Limnodrilus newaensis* Mich. and *L. hoffmeisteri* Clap. in sediments of the Rybinsk Reservoir. *Byulleten' Instituta biologii vodokhranilishch*, 12, 20–26. [In Russian]
- Poddubnaya, T.L. (1962) Main features of the ecology of *Limnodrilus newaensis* Mich. (Oligochaeta). *Voprosy Ekologii*, 5, 166–168. [In Russian]
- Poddubnaya, T.L. (1963) Life cycle and growth rate of *Limnodrilus newaensis* Mich. (Oligochaeta, Tubificidae). *Trudy Instituta biologii vodokhranilishch*, 5(8), 46–56. [In Russian]
- Poddubnaya, T.L. (1965) Forming of the fauna of tubificid and their distribution in the Rybinsk Reservoir. *Trudy Instituta biologii vnutrennikh vod*, 8(11), 20–36. [In Russian]
- Poddubnaya, T.L. (1965) Foraging of *Chaetogaster diaphanus* Gruit. (Naididae, Oligochaeta) in the Rybinsk Reservoir. *Trudy Instituta biologii vnutrennikh vod*, 9(12), 178–190. [In Russian]
- Poddubnaya, T.L. (1966) Bottom fauna of the Cherepovets Reservoir in the first two years of its existence. *Trudy Instituta biologii vnutrennikh vod*, 12(15), 21–33. [In Russian]
- Poddubnaya, T.L. (1966) On systematics of *Chaetogaster diaphanus* Gruth. (Oligochaeta, Naididae). *Trudy Instituta biologii vnutrennikh vod*, 12(15), 120–124. [In Russian]

- Poddubnaya, T.L. (1967) On the foraging method of *Isochaetides newaensis* Mich. and *Limnodrilus hoffmeisteri* Clap. (Tubificidae, Oligochaeta). *Biologiya vnutrennikh vod, Informacionnyj byulleten'*, 1, 23–24 [In Russian]
- Poddubnaya, T.L. (1968) Reproduction biology of *Chaetogaster diaphanus* Gruith. (Oligochaeta, Naididae). *Trudy Instituta biologii vnutrennikh vod*, 17(20), 3–20. [In Russian]
- Poddubnaya, T.L. (1969) Bottom fauna of the Cherepovets Reservoir in the first two years of its existence. In: Shtegman, B.K. (Ed.), *Plankton and benthos of inland waters*. Israel Program for Scientific Translations Ltd., pp. 20–33.
- Poddubnaya, T.L. (1969) Taxonomy of *Chaetogaster diaphanus* Gruith. (Oligochaeta, Naididae). In: B.K. Shtegman, B.K. (Ed.), *Plankton and benthos of inland waters*. Israel Program for Scientific Translations Ltd., pp. 133–137.
- Poddubnaya, T.L. (1971) Bottom fauna of the Ivan'kovo Reservoir in the vicinity of the discharge of effluent from the Konakovo Power Plant. *Trudy Instituta biologii vnutrennikh vod*, 21(24), 96–103. [In Russian]
- Poddubnaya, T.L., Mitropol'skij, V.I., Shilova, A.I. & Zelentsov, H.I. (1971) Bottom fauna of the Rybinsk Reservoir after materials collected in 1968. *Trudy Instituta biologii vnutrennikh vod*, 22(25), 42–56. [In Russian]
- Poddubnaya, T.L. (1971) Resorption and regeneration of the reproductive system in tubificids on the example of *Isochaetides newaensis* Mich. (Oligochaeta, Tubificidae). *Trudy Instituta biologii vnutrennikh vod*, 22(25), 81–90. [In Russian]
- Poddubnaya, T.L. (1972) Peculiarities of life cycles in the tubificids and naidids (Oligochaeta: Tubificidae and Naididae). *Trudy Vsesoujuznogo Gidrobiologicheskogo Obshchestva*, 17, 87–93. [In Russian]
- Poddubnaya, T.L. (1972) Abundance dynamics and production of the *Isochaetides newaensis* (Mich.) (Oligochaeta) population in Rybinsk Reservoir. In: Kuzin, B.S., Vajnshtejn, B.A. & Poddubnaya, T.L. (Eds.), *Vodnye maloshchetinkovye chervi, Materialy Vtorogo Vsesoyuznogo Simpoziuma*. Yaroslavl', pp. 134–147. [In Russian]
- Poddubnaya, T.L. (1973) Production of tubificids of the Ivan'kovo Reservoir in the vicinity of the discharge of effluent from the Konakovo Power Plant. *Gidrobiologicheskij Zhurnal*, 9(5), 52–57. [In Russian]
- Poddubnaya, T.L. (1974) Condition of bottom fauna of the Ivan'kovo Reservoir on the 32th year of existence. In: Romanenko, V.I. & Ekzertsev, V.A. (Eds.), *Flora, fauna and microorganisms of Volga*. Moscow–Rybinsk, pp. 143–153 [In Russian]
- Poddubnaya, T.L. (1976) Biological peculiarities and production of *Tubifex tubifex* (Müll.) in polluted reach of a tributary of the Rybinsk Reservoir. In: Nikolskij, G.V. & Butorin, N.V. (Eds.), *Biological production processes in the Volga River basin*. Nauka, Leningrad, pp. 119–127. [In Russian]
- Poddubnaya, T.L., Akinshina V. & Tomilov, A.A. (1977) Share of the oligochaete *Tubifex tubifex* (Müll.) in biomass and production of benthos in the Bratsk Reservoir. In: Kozhova, O.M. (Ed.), *Biological studies on the East Siberian waterbodies*. Irkutsk University, Irkutsk, pp. 90–109. [In Russian]
- Poddubnaya, T.L. (1980) Life cycles of mass species of Tubificidae. In: Brinkhurst, R.O. & Cook, D.G. (Eds.), *Aquatic Oligochaete Biology*. Plenum Press, New York, pp. 133–137.
- Poddubnaya, T.L. & Timm, T.E. 1980. Morpho-biological peculiarities of *Tubifex tubifex* (Müll.) (Oligochaeta, Tubificidae) in different freshwater biocenoses. *Trudy Instituta biologii vnutrennikh vod*, 41(44), 3–16. [In Russian]
- Poddubnaya, T.L. (1980) Reproduction and productivity of *Tubifex tubifex* (Müll.) (Oligochaeta, Tubificidae) in different ecological conditions. *Trudy Instituta biologii vnutrennikh vod*, 41(44), 17–30. [In Russian]
- Poddubnaya, T.L. (1980) On independency of the species *Tubifex bergi* Hrabě (Oligochaeta, Tubificidae) from Lake Issyk-Kul. *Trudy Instituta biologii vnutrennikh vod*, 41(44), 41–52. [In Russian]
- Poddubnaya, T.L. (1980) On parthenogenesis of the tubificids (Oligochaeta). *Trudy Instituta biologii vnutrennikh vod*, 44(47), 3–13. [In Russian]
- Poddubnaya, T.L. (1980) Characteristics of the life cycle of Tubificidae and Naididae. In: *Aquatic Oligochaeta Worms: Taxonomy, Ecology and Faunistic Studies in the USSR. Trudy Vsesoujuznogo Gidrobiologicheskogo Obshchestva* 17 [Translated from Russian]. Amerind Publishing Co., New Delhi, pp. 97–104.
- Poddubnaya, T.L. (1983) Content and distribution of Oligochaeta in Lake Pleshcheevo. *Trudy Instituta biologii vnutrennikh vod*, 51(54), 86–96. [In Russian]

- Poddubnaya, T.L. & Bakanov, A.I. (1983) On spacial distribution of aquatic oligochaetes. *In: Kurashvili, B.E. (Ed.), Vodnye maloshchetinkovye chervi, Materialy Chetvertogo Vsesoyuznogo Simpoziuma*. Metsniereba, Tbilisi, 5–10. [In Russian]
- Poddubnaya, T.L. (1984) Parthenogenesis in Tubificidae. *Hydrobiologia*, 115, 97–99.
- Poddubnaya, T.L. & Ponyi, J.E. (1985) New data on the Oligochaeta fauna of Lake Balaton. *Állattani Közlemények*, 72, 153–156. [In Hungarian]
- Poddubnaya, T.L. (1986) Bottom and phytophilous fauna of Lake Nero. *Trudy Instituta biologii vnutrennikh vod*, 53(56), 137–156. [In Russian]
- Poddubnaya, T.L. (1988) Many-year dynamics of the structure and productivity of the bottom communities in Rybinsk Reservoir. *Trudy Instituta biologii vnutrennikh vod*, 55(58), 112–141. [In Russian]
- Poddubnaya, T.L. & Semernoy, V.P. (1989) Intraspecific variability of *Potamothrix hammoniensis* (Mich.) (Oligochaeta, Tubificidae). *Trudy Instituta biologii vnutrennikh vod*, 56(59), 95–107. [In Russian]
- Poddubnaya, T.L. & Pataridze, A.I. (1989) A new species of the genus *Potamothrix* (Oligochaeta, Tubificidae) from the high mountain lakes of the Caucasus. *Zoologicheskij Zhurnal*, 68(10), 153–156. [In Russian]
- Poddubnaya, T.L. & Semernoy, V.P. (1990) Intraspecific variability of *Potamothrix hammoniensis* (Mich.). *In: Khmeleva, N.N., Golubev, A.P., Sokolova, N.Ju. & Roshchin, V.E. (Eds.), Species in area: biology, ecology and productivity of water invertebrates*. Navuka i Tekhnika, Minsk, pp. 199–203. [In Russian]
- Finogenova, N.P. & Poddubnaya, T.L. (1990) One more revision of the genus *Potamothrix* Vejdovský et Mrázek, 1902 (Oligochaeta, Tubificidae). *Zoologische Jahrbücher, Abteilung für Systematik, Ökologie und Geographie der Tiere*, 117, 55–83.

Literature cited in this memoriam:

- Sperber, C. (1948) A taxonomical study of the Naididae. *Zoologiska Bidrag från Uppsala* 28, 1–296 + 21 pls.

TARMO TIMM¹ & MARK J. WETZEL²

¹*Estonian Institute of Life Sciences, Centre for Limnology, 61117 Rannu, Tartumaa, Estonia.*
E-mail: tarmo.timm@emu.ee

²*Illinois Natural History Survey, Prairie Research Institute at the University of Illinois at Urbana-Champaign, Forbes Natural History Bldg., 1816 S. Oak St., Champaign, Illinois 61801 USA.*
E-mail: mjwetzl@illinois.edu