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CHRONICLE

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LUDMILA SEMENOVNA GARAGULYA
(*10.12.1934–30.06.2019*)

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On June 30, 2019, at the age of 84, after a long grave illness, Ludmila Semenovna Garagulya died. She was a prominent scientist, professor of the geocryology chair of the geology department of the Moscow State University, doctor of geological and mineralogical sciences, laureate of the State Prize of the Russian Federation in Science and Technology, and Honored Scientist of RF.

Geocryology, geocryological processes, educatory activities

On June 30, 2019, at the age of 84, after a long grave illness, Ludmila Semenovna Garagulya passed away. She was a prominent scientist, professor of the geocryology chair of the geology department of the Moscow State University, doctor of geological and mineralogical sciences, laureate of the State Prize of the Russian Federation in Science and Technology (1993), and holder of the title of the Honored Scientist of RF (1995).

Ludmila Garagulya was born on December 10, 1934 in Zaporozhe. In 1953, after finishing secondary school with a gold medal, she entered the geology department of the Moscow State University, from which she graduated in 1957 with qualifications of a geologist-hydrologist. After graduation from the MSU, in 1957–1958 she worked as a senior laboratory technician of the Geography Institute of the Academy of Sciences of the USSR in Polar Urals. Further on, the scientific and educatory work of Ludmila Garagulya (except for the period of 1972–1977, when she worked as the head of a sector in the All-Union Research Institute for Construction of Trunk Pipelines), was connected with the geocryology chair of the geology department of the Moscow State University. Here she passed a long road from the head of a geological field party to the senior researcher in the chair expeditions which worked in the northern and north-eastern regions of the country. In 1965, Ludmila Garagulya defended a candidate's thesis, in 1977 she became an associate professor, and, after defense of the doctorate in 1984, she headed the laboratory of mathematical methods and geocryological prediction (1984–2000). In 2000, Ludmila Semenovna became a professor of the geocryology chair.

Ludmila Garagulya was known for the broadness of her scientific interests, including geocryological survey, forecasting the behavior of geocryological processes, evaluative mapping of the permafrost zone, geological processes in the permafrost zone, and issues of environmental geocryology. To solve the tasks of

geocryological survey and mapping, she developed a geocryological engineering classification of Quaternary permafrost formations, reflecting the genetic connection between permafrost and engineering geological characteristics and the geomorphological structure of a territory, the origin and composition of the sediments and the specific features of their cryogenic transformations. She developed a classification of the geological permafrost processes based on the energetic and geological conditions of their development, which determine their specific manifestation on the terrain. Based on this classification, Garagulya developed an approach to evaluative mapping of the geological permafrost processes. To predict resistance of frozen soils to anthropogenic impact and load, she developed a special classification of disperse rocks underlying plains. Ludmila Garagulya had more than 150 works published, including 7 monographs, 8 textbooks and manuals. During dozens of years, Ludmila Garagulya led the geocryological research carried out in Central, Western and Eastern Siberia, in the north-east of Russia, in Pribaikalye and Amur region.

Beginning with 1977, Ludmila Garagulya worked as an educator, too. She developed and delivered such courses as the methodology of geocryological research, geocryological survey and mapping, dynamic geocryology, geocryology, environmental aspects of geocryology, geocryological hazards in Russia, and geocryological monitoring. She was the supervisor for 11 candidate's theses, which were successfully defended.

Apart from extensive research and educatory activities, Ludmila Garagulya carried out a large volume of organizational work in science, performing at different times the duties of a learned secretary of the specialized dissertation council in the Moscow State University and of a member of the editorial board of the *Geoecology* journal.

Colleagues, friends and students appreciated Ludmila Semenovna's high professionalism, honesty and integrity, reliability, responsibility, and devotion to science.

Ludmila Semenovna Garagulya will be always remembered as an outstanding researcher, a talented teacher, a faithful friend and a helpful colleague.

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