

ROMAN LIDIYA TARASOVNA
(29.11.1938–18.07.2017)

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On July 18, 2017 the famous geocryologist, doctor of geological and mineralogical sciences, Professor Lydiya Tarasovna Roman passed away. Lydiya Tarasovna will be remembered as a remarkable scientist, an outstanding educator, a faithful friend and a very good person.

Famous geocryologist, Lydiya Tarasovna Roman



On July 18, 2017, the famous geocryologist, doctor of geological and mineralogical sciences, Professor Lydiya Tarasovna Roman, whose life was fully dedicated to the science of geocryology, passed away.

Lydiya Tarasovna Roman was born on November 29, 1938. In 1962, she graduated from the Poltava Engineering Institute. She worked in construction of the Bratsk hydroelectric power plant, then in the Yakutsk affiliate of the Krasnoyarsk PromstroyNI-Iproject. In 1987, she headed the laboratory of permafrost soil mechanics of the geocryology chair of the faculty of geology of the Lomonosov Moscow State University.

Lydiya Roman was a member of the National Association of Soil Mechanics and Foundation Construction, a member of the permafrost engineering sector of the Scientific Council of RAS for Earth Cryology, an academic advisor for the International Engineering Academy (IEA), the secretary of the Scientific Board for Engineering Geocryology of the North of EIA, a member of the Specialized Board for

Defense of Candidate Theses in MSU, and Professor Emeritus of the Lánzhōu Institute of Glaciology and Geocryology of the Chinese Academy of Sciences.

For her achievements, she was awarded an “Order of Red Banner of Labor” and medals “For Outstanding Labor Achievements”, “In Commemoration of Vladimir Lenin’s Centenary”, and “For Excellence in Labor”.

Lydiya Tarasovna Roman was credited with 7 inventions, for which she was awarded two bronze medals and one silver medal of the All-Union Exhibition of the Achievements of National Economy.

The areas of her scientific interest are frozen ground mechanics and construction of foundations. The results of her work in those areas have found wide application in the construction practices. For example, the data obtained during the laboratory and field tests of filled grounds served as a basis for designing construction of new residential building estates of the city of Yakutsk. Under direct guidance of Lydiya Roman in the geocryology chair of the geology

department of MSU, a theory of contact interactions in frozen grounds was developed. Besides, Dr. Roman developed the methodology of using time analogies to forecast long-term deformities and durability of frozen grounds on the basis of the kinetic theory of durability of solid bodies and found a solution for considering the scale factor in testing frozen grounds.

Lydiya Tarasovna was not only a remarkable scientist but also an excellent lecturer. She delivered a many years' course of lectures on frozen ground mechanics, which aroused vivid interest on the part of the university undergraduates and graduate students of MSU. She had a large number of grateful students, including seven candidate degree holders.

Lydiya Tarasovna Roman is the author of 150 publications, among which her monographs "*The Details of Designing Foundations in the Oil Production Regions of Western Siberia*" (coauthored with A.A. Konovalov), "*Physico-Mechanical Properties of*

Frozen Peat Soils", "*Frozen Peat Soils as Bases for Buildings*", "*Methods of Determining the Mechanical Properties of Frozen Soils*" (coauthored with E.D. Ershov and S.S. Volokhov), "*Mechanics of Frozen Soils*". The latter monograph has been translated into Chinese, and is now known not only as a book for specialists but also as a modern tutorial for students and graduate students studying the basics of soil mechanics.

Always in a good disposition and with a kind smile on her lips, active and curious, Lydiya Tarasovna Roman embraced and encouraged her colleagues and numerous students with the warmth of her heart. We, her colleagues, friends and followers, will always remember Lydiya Tarasovna as a remarkable scientist, a brilliant educator, and a faithful and helpful friend.

*The members of the geocryology chair
of the geology faculty of MSU*