



Gorbatshevich Feliks Feliksovich (born 26.08.1937). Graduated from Leningrad Gas-fuel Technical School (1958), North-western Polytechnic Institute, Department of radio engineering, specialty - radio engineering (1969). Ph.D. (Eng.) - 1980, Dr.Sci. (Eng.) – “Acoustopolariscopy of rocks – methods and results”, 1992. At KSC RAS since 1964. At Mining-metallurgical Institute, laboratory assistant, senior laboratory assistant, junior researcher. At Geological Institute since 1983. – Head researcher. Gorbatshevich F.F. conducts researches on physical properties and rock state in the sections of the Kola (SG-3), Ural (DG-4), Finnish (OKU) and German (KTB) deep and superdeep drill holes.

His research interests lie in the study of the properties and state of polymineral crystalline rocks at depths of 1-50 km, propagation of elastic waves in anisotropic randomly inhomogeneous media. A separate topic of researches - the properties and structure of the ethereal medium and its relation to gravity.

Co-authored and individually he discovered and investigated three new phenomena which manifest themselves in polycrystalline rocks: the phenomenon of disintegration of rocks during their extraction from depths exceeding 4-6 km; the phenomenon of linear acoustic anisotropic absorption (an analogue of optical dichroism that is widespread in metamorphosed rocks); the phenomenon of depolarization of shear waves during their propagation in media with differently oriented crystals.

On a number of projects of the Russian Foundation for Basic Research he conducted the study of elastic anisotropic properties of the core from the sections of SG-3, SG-4, OKU and KTB, the spatial characteristics of elastic properties of rock forming minerals, monomineral and polymineral rocks by the acoustopolariscopy method. Gorbatshevich F.F. is the author of over 200 scientific works including 8 inventions, 8 monographs, 5 methodical recommendations, and 7 collective monographs. Under his leadership applicants prepared three research papers for the Ph.D. degree. He is a member of the Russian Acoustic and Mineralogical Societies.

Main publications: Reflection and Propagation of Elastic Waves at the Media Interface, 1985. Apatity. 98 p. (in Russian); Acoustopolariscopy of Rocks, 1995. Apatity. 204 p. (in Russian); Fundamentals of the Theory of Non-empty Ether, 1998. Apatity. 47 p. (in Russian); Acoustopolariscopy of Rock Forming Minerals and Crystalline Rocks, 2002. Apatity. 140 p. (in Russian); The Ether medium and Universe, 2004. Sankt-Petersburg. 112 p. (in Russian); Acoustopolariscopy of Minerals and Rocks. VDM Verlag, Saarbrücken, 2009. 144 p.; The Ether and Universe. The Ether is the Basis for Propagation of Electromagnetic Fields and Gravitation. VDM Verlag, Saarbrücken, 2010. 114 p.; The Ether Medium and Gravity. Moscow, «LIBROKOM”, 2013. 152 p. (in Russian).