

CONTENTS

Mineralogy

- Olga VAREIKIENĖ, Jukka MARMO, Tegist CHERNET, Jukka LAUKKANEN.** Results of heavy mineral pre-concentration by the Knelson for the geochemical study of soil: a case study in Lithuania 1

Geochemistry

- Emelyan M. EMELYANOV.** The geochemical and geocological situation of the Gotland Basin in the Baltic Sea where chemical munitions were dumped 10
- Evelina BRANNVALL, Valdas ŠPAKAUSKAS.** Experimental and theoretical study of pollutant dispersion along a highway 27

Tectonics

- Radim GARETSKY, German KARATAYEV.** Klaipėda tectonic sigmoid 33

Sedimentology

- Egidijus TRIMONIS, Saulius GULBINSKAS, Nerijus BLAŽAUSKAS, Modestas KUZAVINIS, Erikas VISAKAVIČIUS.** Composition and formation of sand massifs in the Curonian–Sambian submarine plateau (Baltic Sea) 39

Hydrogeology

- Vytautas JUODKAZIS, Linas PAPIEVIS.** Spring water in Vilnius City: chemical composition and quality 51
- Jonas DILIŪNAS, Arūnas JUREVIČIUS, Mykolas KAMINSKAS, Danutė KARVELIENĖ, Valė USONIENĖ.** Role of ferro-bacteria in the migration of iron and manganese compounds in the Lithuanian groundwater 58
- Algirdas ZUZEVIČIUS, Jonas MAŽEIKA, Valentinas BALTRŪNAS.** A Model of brackish groundwater formation in the Nemunas River valley, Lithuania 63

Engineering geology

- Tomas KAIRYS, Gintaras ŽARŽOJUS, Kastytis DUNDULIS.** Deformations of till soils while installing vibro-piles 76

Paleozoology

- Aleksander SANKO, Algirdas GAIGALAS.** The first finding of *Belgrandia marginata* (Michaud) in the Lithuanian Quaternary malacofauna 83

In memoriam

- Academician Vytautas Gudelis (1923–2007) 90

Chronicle

- Morphotectonics of lowland areas (Conference, August 27–31, 2007, Vilnius, Lithuania) 94