

Bevezető szavak

„A ma geológiája a holnapért”

című konferencián elhangzott előadások elé

A Tudomány Világkonferenciájához kapcsolódóan – a Magyarhoni Földtani Társulat szervezésében – a fenti címmel került megrendezésre az a konferencia, amely a következő évszázad két kiemelkedő társadalmi-gazdasági jelentőségű kérdéskörét, a felszínalatti vizek állapotának, tisztaságuk megőrizhetőségének, valamint az egyre szaporodó és egyre jelentősebb veszélyforrásként megjelenő radioaktív hulladékok elhelyezésének gondjait állította középpontba. A rendezvényről HALMAI J. tollából a Földtani Közlöny 129/3. füzetének 451–453. oldalán nyerhető részletesebb tájékoztatás. Az ott elhangzott előadások egy része az Acta Geologica Hungarica 43/2. füzetében, néhány további pedig jelen füzetben – az alábbiakban – olvasható.

A konferencián elhangzott előadások:

Június 21

Plenáris ülés

BÉRCZI, I.: Opening address

TÓTH, J.: The key improvements in aquifer protection: analytical hydrogeology

RYBACH, L.: Geologic disposal of radioactive waste sustainability

CUSTODIO, E.: Functioning of groundwater-dependent wetlands

ZIJL, W., TRYKOZKO, A.: Flow systems analysis and homogenization for aquifer protection

THURY, M.: Waste, host rocks, repository concepts and the role of geology

ÁIKÁS, T.: Repositories for high-level radioactive waste in crystalline rocks, geological key questions

A szekció: Geological aspects of radioactive waste disposal

ORMAI, P., FRIGYESI, F.: Status of low and intermediate level radioactive waste repository programme in Hungary

BALLA, Z.: Geological exploration for low and intermediate level radioactive waste disposal in Hungary

TÓTH, Gy., HORVÁTH, I.: Hydrodynamics and hydrogeochemistry of the Mórággy Granite Complex

MAROS, Gy., PALOTÁS, K., RÁLISCH-FELGENHAUER, E.: Tectonic evaluation of the Mórággy Granite with Imageo Mobile Corescan System

KOVÁCS, L., CSICSÁK, J., BERTA, Zs.: Main results of the qualification programme of the Boda Siltstone Formation

HÁMOS, G. – FÖLDING, G. – MAJOROS, Gy. – KONRÁD, Gy.: The role of geological research in the qualification programme of the Boda Siltstone Formation

ÁRKAI, P., BALOGH, K., DEMÉNY, A., FÓRIZS, I., MÁTHÉ, Z., NAGY, G.: Study of composition, diagenetic and post-diagenetic alterations of the albitic Boda Siltstone Formation

CHIKÁN, G.: The role of geological mapping in radioactive waste disposal in Hungary

B szekció: Protection of subsurface aquifers

- SCHNEIDER, J. F.: Sustainable development, use and protection of aquifers
 VARSÁNYI, I., Ó-KOVÁCS, L., MATRAY, J. M.: Separation of water flow systems based on chemical and isotopic composition of subsurface water in the Great Plain, Hungary
 KOMATINA, M., KOMATINA, S.: Groundwater protection at the Karst terrains of Serbia (Yugoslavia)
 GABRIEL, W. J., MASON, J. M., SIEGEL, D. I.: Multidisciplinary techniques for aquifer evaluation in a karstic setting and implications for resource development – a case study
 CAMPOS, H.: Applied groundwater modelling in the Botucatu aquifer system, Brazil
 MÁRTON, L., SZÁNYI, J.: Interaction of deep and near-surface groundwaters in a Leaky aquifer system

*Június 22**A szekció: Geological aspects of radioactive waste disposal*

- BREWITZ, W.: Longterm safety of underground radioactive waste repositories – key issue for research and development
 BODVARSSON, G. S.: Geological consideration for the flow and transport model of Yucca Mountains, Nevada
 DE CRAEN, M., DELLEUZE, D., VOLCKAERT, G., SNEYERS, A., PUT, M.: U–Th series disequilibrium studies on Boom Clay, a natural analogue of radionuclide migration in argillaceous sediments
 BIRKHÄUSER, P., ROTH, P., NEUF, H., STAMPFLI, G.: Application of 3D seismic for radioactive waste disposal in the Swiss Sedimentary Site Characterization Programme for HLW disposal in sedimentary rocks
 SHESTOPALOVA, O.: Future perspective clay formations usage for hazardous waste isolation in Carpathian Region
 DURDUN, I., MARUNTEANU, C.: Romanian LILW disposal – site selection, characterization and investigation programme
 ANTILA, P.: Geological disposal of nuclear waste in Finland
 BRÄUER, V., BORNEMANN, O.: Geoscientific investigations at the Gorleben Salt Dome – the potential German repository site for radioactive waste
 WOLLER, F.: Siting of deep geological repository in the Czech Republic: history and current situation
 LALIEUX, P.: International co-operation regarding site characterization and site evaluation for repository systems of long-lived radioactive waste
 ERIKSSON, L. G.: The MD design: an integrated earth sciences and geoengineering approach to safe geological disposal of long-lived waste
 AITMATOVA, D.: Radioactive wastes disposal and ecological safety problems on the Territory of Kyrgyzstan
 MARCINKEVICIUS, V., KANOPIENE, R.: The possibilities of deep repository of radioactive waste in Lithuania

B szekció: Protection of subsurface aquifers

- SHESTOPALOV, V., ZAIONTS, I. O., BONDARENKO, Ya. I., STETSENKO, B. D., RUDENKO, Yu. F.: Structural-geodynamical and hydrogeological zoning to reveal geological structures most perspective for depth isolation of radioactive wastes
 OPHORI, D.: Simulating large-scale groundwater flow for waste disposal purposes
 KESSERÜ, Zs.: Aquifers and mines at interacting risks: prevention principles for sedimentary environment
 TÓTH, J., SHENG, G.: Using the recharge area concept as a strategy to enhance the safety of nuclear waste disposal
 LEBEDYNETS, M., SPRYSNSKY, M.: Subsurface water pollution by nitrate-ions contry-side in West Ukraine
 VELICIU, S.: Consequences on the aquifers of the subterranean combustion in an oil field
 KENNEDY, K., MÜLLER, I.: Improving ground water protection strategy by using documentes Contaminant/Tracer Transport Rates

- GONDI, F., LOEBEL, E.: An alternative approach for aquifer protection risk-based decision matrix
- OGNIAK, N. S., PARAMONOVA, N. K.: The problems of estimating the unsaturated zone contamination with hydrocarbons and determining protective properties of the unsaturated zone
- BOSCH, F. P., MÜLLER, I.: Groundwater vulnerability mapping in fissured rocks using continuously recording, non contact, radio-frequency electromagnetic (RF-EM) instruments
- SÓRÉS, L., GULYÁS, Á., OCSENÁS, P.: Ground geoelectrical methods in hydrogeological exploration
- HAVAS-SZILÁGYI, E., LIEBE, P.: Problems and solutions of aquifer protection in Hungary

Záró ülés

- NARASIMHAN, T. N.: Protection of subsurface aquifers: a broader context
- NEERDAEL, B., DE CRAEN, M.: Repositories for high-level waste in argillaceous formations geological key questions
- HALMAL, J.: Closing word