

SCIENTIFIC PUBLICATIONS /ABSTRACT/

Karst and cave morphology, genesis

Eszterhás, I.: Caves of basic solution origin

/Alba Regia Speleological Group/

Most of the caves in the Tihany peninsula were formed by hydrothermal solution in post-volcanic siliceous and calcareous geysers. In contrast to the acidic solution characteristic of karsts, these hollows were corroded by basic solution in the geysers. The paper studies the precipitation of the siliceous and calcareous material of the geysers and concludes that it takes place, first of all, in the period of slow effluence of hot solutions, at pH 8. The geysers are also dissolved by the ascending hot solutions, but in the stage of rapid activity of the hot spring, when pH rises above 9, i.e. basic.

Kardos, L.: Dating dripstones

/USE Pannónia Speleoalpine Group/

The paper briefly reviews the applied methods of dripstone dating, details sampling technology, the preparation of the dripstone sample as well as the technique followed by author which is based on the comparison of annual tree rings and rhythms of dripstone stratification.

Kárpát, J.: Contributions to the morphology of the Cserszegtomaj well cave

/Acheron Speleological Section/

In connection with the detailed morphological survey of the cave, author investigates the origin of microforms on walls, the problem of distribution of smooth and "lacy" wall surfaces and the genesis of funnel-shaped halls.

Kárpát, J.: Memoir to the morphological and tectonic map of the Mátyás-hegy cave

/Acheron Speleological Section/

The memoir presents the stratification and tectonic conditions, the distribution and types of thermal solution features and classifies the types of profile characteristic of the caves.

Dr. Szunyogh, G.: Theoretical physical investigation of the condensed water origin of thermal spherical hollows

/FTSK Speleological Section/

Author publishes here a brief abstract of his longer study with the main conclusions, but excluding formulas and figures.

Veress, M.: Anthropogenic activity at the karstic depressions of the Lezsnyakuti-dűlő, Bakony Mountains

/Cholnoky Jenő Speleological Group/

The karstic depressions of the Lezsnyakuti-dűlő have been filled through agricultural activities and this allows the observation of the particular phases of their restoration.

Veress, M.: Field trip to the NE Mester-Hajag, Bakony Mountains

/Cholnoky Jenő Speleological Group/

Author groups the karstic depressions on the NE of Mester-Hajag by their location and morphological features.

Veress, M.: Mapping the SW Mester-Hajag

/Cholnoky Jenő Speleological Group/

The paper describes the karst morphological conditions of the SW Mester-Hajag and presents them on a map of 1:500 scale and deals with the evolution of surficial features.

Veress, M.: Field trips to the environs of the Márvány-árok, Bakony Mountains

/Cholnoky Jenő Speleological Group/

The location and morphological features of the studied 138 karstic depressions in the environs of the Márvány-árok are evaluated in a tabulated form and the evolution of the area is also presented.

Veress, M.: Mapping the area between Fehérkő-árok and Augusztin-tanya, Bakony Mountains

/Cholnoky Jenő Speleological Group/

A brief introduction and a map of 1:500 scale outlines the karst morphology of this area of the Bakony Mountains.

Veress, M.: Measuring the depth of karstic depressions

/Cholnoky Jenő Speleological Group/

A brief study of the technical difficulties in measuring the depth of karstic depressions.

Veress, M.: Investigating the movement of loose materials

/Cholnoky Jenő Speleological Group/

The results from the dislocation of rows of stakes in doline sides are outlined in a brief study and a table.

Cave geology

Bubics, I.: Rock types from object No I-15  
/Alba Regia Speleological Group/

The paper includes the detailed macroscopic description of Triassic, Jurassic and Cretaceous rock samples taken from the object No I-15. /which is the Veterán aven in the Bakony Mountains - ed. rem./ and results of rock chemical analyses.

Futó, J.: Geological mapping of NW and SE Mester-Hajag, Bakony Mountains  
/Cholnoky Jenő Speleological Group/

Author details the geological-tectonic conditions of the Mester-Hajag and draws conclusions for the evolution of the present morphology. It is illustrated by two geological maps of 1:500 scale.

Futó, J.: Sediment geological investigation of the swallow-holes of the Lazsnyakuti-dűlő  
/Cholnoky Jenő Speleological Group/

The geological data of the sequence of the seven objects of the area studied by test shafts are presented in a detailed description, map and profiles.

Dr.Kordos, L.: Contributions to the fossil mammal fauna of the Tés Plateau  
/Alba Regia Speleological Group/

Identification of specimens collected by the Alba Regia Speleological Group.

Nagy, T.: Geological description of the Kristály-tó /Crystal Lake/ branch of the Fekete-barlang of Tekenős  
/NME TDK Karst Hydrological Group/

In his students' scientific circle paper author over view the history of exploration of the cave, geology of the environs, the morphological and geological description of the Kristály-tó branch, results of investigations and genetic conclusions.

Németh, T.: Sediment analyses  
/Alba Regia Speleological Group/

Results of the /grain size distribution, solubility, roundedness and other/ analyses of 11 samples taken from the Alba Regia cave, Csengő and Bongó avens, Bakony Mountains.

Szerencsi, L.: Investigation of the Cretaceous profile at Csőszpuszta, Bakony Mountains  
/Alba Regia Speleological Group/

The paper includes a macroscopic description and a hypothetical chronology of the rock samples collected to broaden geological-hydrogeological knowledge of the Tés Plateau section NW of Csőszpuszta.

Takács-Bolner, K.: Sediment analyses  
/Bekey Imre Gábor Speleological Group/

The brief report informs about the grain size distribution and CaCO<sub>3</sub> data of the auger holes in the Gipszes corridor of the Pál-völgy cave and of the exposure into the Hágcsós hall.

Veres, L. - Schneider, J.: Sedimentological investigation of the Király Lajos cave  
/NME TDK Karst Hydrological Group/

The students' scientific circle paper presents the results of augering in the Big Hall of the cave, the DTA, grain size distribution, heavy mineral and roundness of light mineral fraction analyses of samples from test trench as well as some parameters of the more clayey samples in a tabulated form and the occurring fossils.

Veres, L.: Report on the geological activities in the Király Lajos aven  
/Marcel Loubens Speleological Association/

Author presents the results of sedimentological analyses of the fill of the Big Hall of the cave studied in test trench and augering.

Veress, M.: Filled dolines in the quarry of Márkó, Bakony Mountains  
/Cholnoky Jenő Speleological Group/

The brief paper deals with the sedimentological features of the filled dolines in the quarry of Márkó.

#### Karst hydrology

Dr.Cser, F.: To the problem of mixture corrosion  
/Papp Ferenc Karst and Speleological Group/

The paper includes an overview of the investigation methods of the problem and a detailed description of the demonstration and computer programme to be used for the calculation of the mixture corrosion of waters of different temperature and ionic composition.

Veress, M.: Further data to the operation of the karstic depressions of the Hárskuti Plateau, Bakony Mountains  
/Cholnoky Jenő Speleological Group/

Author has tabulated the data collected on the hydrological activity of the karstic depressions on the Hárskut Plateau.

Veress, M.: Analyses of springs  
/Cholnoky Jenő Speleological Group/

In the brief paper a table is presented of the Ca<sup>++</sup> content for 11 springs of the Bakony Mountains.

Vidics, Z.: Measurements of water temperature in the area of Égerszög, Aggtelek Karst  
/FTSK Speleological Section/

Brief information on the occasional measurements of the water temperature of springs near Égerszög and of the Rét-patak, Aggtelek Karst.

Zentai, F.: Introduction of Kazó's infiltration intensity investigations on the Tés Plateau  
/Alba Regia Speleological Group/

The study presents the technology elaborated at the Plant Protection Station of Velence in detail.

Zentai, F.: Investigation of the fine fraction of cave deposits. Investigation of sedimentation from dripping water  
/Alba Regia Speleological Group/

In his paper author calls attention to the technical difficulties of analyses and states that percolating water is also able to transport carbonates in solid state as well as in fluid.

#### Cave climatology and physics

Ferenczy, B.: Temperature measurements in the Anna travertine cave  
/Marcel Loubens Speleological Association/

The data from sporadic temperature measurements and air current observations collected during the year tabulated and the figures obtained by a 24-hour series of hour-by-hour temperature measurements are plotted on a diagram.

Kárpát, J.: Carbon-dioxide measurements in the Cserszegtomaj well cave, Keszthely Mountains  
/Acheron Speleological Section/

The paper includes data from six sites of the cave and summarizes the experience gathered from the CO<sub>2</sub> measurements carried out since 1982.

Kárpát-Fehér, K.: Climatic measurements  
/Acheron Speleological Section/

In 1984 members measured climatic parameters in four caves. The paper includes the results and the conclusions. Author covers the sources of error and their correction during the measurements.

Kárpát-Fehér, K.: Climatic investigations in the Szemlő-hegy cave, Buda Mountains, and the Cserszegtomaj well cave, Keszthely Mountains

/Acheron Speleological Section/

The study handed in for the competition "Creativ Youth" gives an outline description of the two caves, the measurement methods and instruments applied. It tackles the air currents of the Szemlő-hegy cave, the winter and summer curve of temperature: CO<sub>2</sub> concentration, temperature and air moisture in the Cserszegtomaj well cave. The possible error of psychrometric measurements in air with CO<sub>2</sub> are also covered.

Dr.Lénárt, L.: Scientific research and processing of results

/Marcel Loubens Speleological Association/

A brief summary of achievements of activities of the Association in the Bükk Mountains. The temperature, radon-detector, dripping and water table fluctuation data are tabulated or plotted.

Dr.Somogyi, Gy.: Results of radon measurements in the Alba Regia cave between 1980-1983

/Alba Regia Speleological Group/

Author summarizes the experience concerning the radon measurements by trace-detector performed for four years in the cave, presents the spatial and temporal features of changes and the conclusions for the technical aspects of measurements.

Szolga, F.: Alpha activity, temperature and carbon-dioxide measurements in the Alba Regia cave

/Alba Regia Speleological Group/

The brief paper presents the results of climatological measurements in the cave in 1984.

Cave biology

Eszterhás, I.: Biospeleological research of the Alba Regia cave in 1984

/Alba Regia Speleological Group/

Author outlines the results on faunistic investigations for 1984 and gives the faunal list of 3855 specimens trapped in the new cave section called Gubanc.

Eszterhás, I.: Animals in the Alba Regia cave

/Alba Regia Speleological Group/

A summary of the exploration history of the cave and a taxonomic presentation of the 209 species described to date. The ecological, cenological and ontogenetical results are presented. In the appendix the complete faunal list is published.

Eszterhás, I.: Practice of collecting and processing cave biota  
/Alba Regia Speleological Group/

Biospeleological research is founded on the collection of cave biota and the speleofloristic and speleofaunistic processing of data of the specimens. The practice of this activity is outlined in the paper. The techniques of collecting subterranean biota and the instruments used are described. The breeding of organisms in culture-medium of incubator are mentioned. The most effective ways of killing, preserving and preparing specimens are enumerated and aids are given for determination.

Kocsis, A. - Zentai, F.: Investigation of microscopic fungi from the caves of the Tés Plateau, Bakony Mountains  
/Alba Regia Speleological Group/

Authors present the novelties found during the several years of study of the five caves of the Tés Plateau.

Dr.Korsós, Z. - Dr.Merkl, O.: Arthropodes in the Létrás stream cave  
/Marcel Loubens Speleological Association/

The experts of the Zoological Section of the Museum of Natural Sciences identified seven arthropode species from the specimens collected from the cave.

Kováts, N.: Observations of bats  
/Marcel Loubens Speleological Association/

Author presents the results of occasional observations of bats in 13 caves of the Bükk Mountains of regular counts in the Létrás stream cave.

Máté, E.: Entomological investigations in the Cserszegtomaj well cave  
/Acheron Speleological Section/

A brief presentation of the faunistic research begun in late 1983, of the conditions of trapping and of the faunal list of the collected species.

Technical issues of cave exploration

Holl, B.: Investigation of tensile strength of mountaineering ropes  
/Acheron Speleological Section/

Most of the ropes in Hungary are applied without knowledge on their strength. The analyses performed were primarily directed at the determination of loadability and elasticity of heavily worn ropes. The paper reveals the relationship between the way of usage and the degree of wearing.

Katapán, Á.: Inexpensive closed-system acetylene producing device for head-lamp  
/Alba Regia Speleological Group/

Author provides the technical description of the home-made device, the technology of construction and the instructions for use.

Mérai, G.: Registration of water table in the Mátyás-hegy cave  
/Acheron Speleological Section/

Brief description of the instrument monitoring water table fluctuations in lakes of caves, its construction and use.

Zentai, F.: Technical development - 1984  
/Alba Regia Speleological Group/

The most important data on instruments and equipment prepared by member and perspective applications are outlined.

#### Cave mapping

Kárpát, J.: Information for cave mapping  
/Acheron Speleological Section/

Notes prepared for the exploration leaders' course of the Hungarian Karst and Speleological Research Society. It covers the methods of representing caves, information for survey technology, the requirements concerning survey minutes and plan, and the principles of map calculations and drafting.

Lukács, E.: Computer programme for cave mapping  
/FTSK Speleological Section/

The computer programme in Basic for computer Olivetti M 40 ST promoting cave mapping is introduced.

#### Protection of karsts and caves

Galán, M.: Activities of closing down the Létrás stream cave  
/Marcel Loubens/

A technical report on the closing down of the cave with the difficulties emerged during the execution.

#### Miscellaneous

Gönczöl, I.: Archeological finds on the Tés Plateau  
/Alba Regia Speleological Group/

The most important finds of 1984 in the area are described.

Németh, T. - Zentai, F.: Use of time by cave explorers in Csőszpuszta  
/Alba Regia Speleological Group/

Authors studied the activity of the dwellers of the research station during four weekends, for 16 hours a day with regard to working hours in the cave, working hours in the research station and the time wasted.

Pócsi-Szalóki, Zs.: With little child in Csőszpuszta  
/Alba Regia Speleological Group/

Author studies the relationship between three married couples with little child and cave exploration. The role of community is underlined in the return of cave explorers after founding a family.

Szolga, F.: Sociometric investigation of the Alba Regia Speleological Group  
/Alba Regia Speleological Group/

For a diploma work, a questionnaire of 35 questions was distributed to the 21 participants of the 1983 summer camp of the Group. The people present truly represented the composition of the Group. The study was written in 1984 and an abstract is published here.