

Record 1 of 8

Title: Environmental factors influencing the distribution of agricultural terraces: Case study of Horný Tisovnik, Slovakia

Author(s): Slamova, M (Slamova, Martina); Krcmarova, J (Krcmarova, Jana); Hroncek, P (Hroncek, Pavel); Kastierova, M (Kastierova, Mariana)

Source: MORAVIAN GEOGRAPHICAL REPORTS **Volume:** 25 **Issue:** 1 **Pages:** 34-45 **DOI:** 10.1515/mgr-2017-0004 **Published:** MAR 2017

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Abstract: The cadastral district of Horný Tisovnik represents a traditionally managed Carpathian mountain agricultural landscape with extensive terraces. It was historically governed by two counties with different feudal economic systems - agricultural and industrial. This paper aims to enrich traditional methods in environmental history. We applied geospatial statistics and multivariate data analysis for the assessment of environmental factors influencing the distribution of agricultural terraces. Using linear models, the hypothesis was tested that the terrace distribution is functionally related to selected factors (affiliation to the historic counties; average altitude and slope; distance from water, buildings and settlements; units of natural potential vegetation; and current land use). Significantly greater amounts of terraces were located in the agricultural county compared to the industrial county. A principal component analysis showed the coincidence between the current agricultural land use and higher concentrations of terraces occurring in lower altitudes, closer to settlements and buildings, and within the unit of Carpathian oak-hornbeam forests. These findings regarding the most significant factors influencing the distribution of terraces are used in proposals for incentives to improve the management of the traditional agricultural landscape.

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Document Type: Article

Author Keywords: agricultural terraces; traditional landscapes; environmental history; multivariate analysis; Slovakia

KeyWords Plus: LANDSCAPE; ABANDONMENT; PERSPECTIVE; FOOTHILLS; GREECE; COVER

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Record 2 of 8

Title: Computer modelling as a basic research and visualisation tool to research defunct historical mining technologies, using the example of cementation water mining in Smolnik (Slovakia)

Author(s): Rybar, P (Rybar, Pavol); Hvizdak, L (Hvizdak, Ladislav); Hroncek, P (Hroncek, Pavel); Jesensky, M (Jesensky, Milos); Simunek, R (Simunek, Robert)

Source: ACTA MONTANISTICA SLOVACA **Volume:** 22 **Issue:** 3 **Pages:** 313-322 **Published:** 2017

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Abstract: In the first part of the study, we point out that it is necessary to use 2D and 2.5 (3D) computer modelling when researching defunct or inaccessible historical montane phenomena. Computer models bring new, hitherto unknown information to historic research. In order to obtain the relevant model information, the researcher must use historically-verified information in computer modelling. This can only be obtained through complex and systematic archival and field research. The resulting model delivers much information that the scientist obtains directly by accurate measurement from the models, or their critical qualitative and quantitative evaluation.

The second part of the study provides specific examples of research procedures and methodological processing of computer models, including archival research, field research, expert computer modelling, and critical model evaluation. These procedures are presented using the world's second oldest example of mining and commercial use of cementation water in Smolnik. After a brief introduction to the history of cementation in Smolnik, we present a 2D model of the oldest map view of cementation dating from 1696, a 2.5 (3D) model of mountain landscape with main water facilities in the second half of the 18th century, and a 2.5 (3D) model of the underground area where cementation water was mined-i.e. what the mining field looked like in the first half of the 19th century.

Accession Number: WOS:000423265000010

Language: English

Document Type: Article

Author Keywords: computer modelling; 2D; 2.5 and 3D models; historical research; cementation; mining underground; Smolnik

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Record 3 of 8

Title: Analysis of heavy metal content in Slovinsky potok brook in Strednospisska burdened area

Author(s): Hroncek, P (Hroncek, Pavel); Cech, V (Cech, Vladimir); Krokusova, J (Krokusova, Juliana); Demkova, L (Demkova, Lenka)

Source: GEOGRAPHIA CASSOVIENSIS **Volume:** 11 **Issue:** 2 **Pages:** 111-123 **Published:** 2017

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Abstract: Strednospisska environmentally-burdened area represents the traditional mining and industrial area of Eastern Slovakia. These activities had and still have (after the closure all industrial and mining plants) negative impact on all landscape components, including water net. The aim of our work was to analyze the heavy metal content in the Slovinsky potok brook based on the analysis of samples taken in four different years. Atomic emission spectrometry and atomic absorption spectrometry were used in laboratory. We processed these results by modern statistical methods in the program of R studio. The total content of heavy metals, after the closure of mining and processing plants in the water catchment area, decreased with the exception of two anomalies. Extremely high above limit value of arsenic at site 1 in all years is the result of a combination of anthropogenic activity and geochemical origin. Also, no correlation between arsenic and other observed toxic elements has been demonstrated, indicating its specific position. The results of the work complement the mosaic of analyses of water streams loadings of the Strednospisska burdened area with heavy metals. This extends the information about the burden on each landscape component in the area.

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Language: Slovak

Document Type: Article

Author Keywords: Strednospisska burdened area; Slovinsky potok brook; heavy metals; mining activity

KeyWords Plus: 4 DIFFERENT ECOSYSTEMS; TAILING IMPOUNDMENT; RISK-ASSESSMENT; SMELTING AREA; SLOVAKIA; HEALTH; SOILS; ACCUMULATION; CU

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Record 4 of 8

Title: The techniques of extraction and the beginnings of production of gold and silver in the Stiavnicka valley of the Nizke Tatry Mountains

Author(s): Hroncek, P (Hroncek, Pavel); Budaj, M (Budaj, Martin)

Source: HISTORICKY CASOPIS **Volume:** 65 **Issue:** 1 **Pages:** 25-46 **Published:** 2017

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Abstract: The study presents the techniques used in the surface and underground extraction of gold in the Middle Ages and reconstructs the history of precious metal production in the Stiavnicka valley of the Nizke Tatry Mountains in the historic territory of Brezno up to the end of the 16th century.

The first part of the work deals with the history of panning for gold in the Stiavnicka valley. On the basis of archive and field research, we succeeded in identifying and reconstructing the gold producing areas, which had an area of more than 100 ha. We analysed the form of the production area. We describe the technical procedures for obtaining the gold-bearing material and the subsequent extraction of the gold. It was precisely the alluvial gold obtained from the Stiavnicka valley that made Brezno one of the prospering mining towns of the Kingdom of Hungary in the 14th and 15th centuries.

In the second part of the article we analyse the beginnings of underground mining of gold and silver ores in the mines of the Stiavnicka valley in the 16th century. On the basis of archive and field research, as well as using published expert works we analysed the techniques for extracting, transporting and processing the precious metal ores in the Stiavnicka valley. We also mention specific examples of remains in the present landscape. In

connection with the techniques for extracting ore in the late Middle Ages and on the basis of archive documents we worked out the history of extraction of gold and other precious metals in the Stiavncka valley up to the end of the 16th century. We can regard the period up to the end of the 16th century as the golden age of gold or precious metal mining in the Brezno area. In the 17th and especially in the 18th century, extraction of iron ore came into the foreground in this area.

Accession Number: WOS:000397155500002

Language: English

Document Type: Article

Author Keywords: Gold; Panning for gold; Underground mining; Gold and silver; Extraction techniques used up to the end of the 16th century; Stiavnicka valley; Nizke Tatry Mountains; Historic territory of Brezno

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Record 5 of 8

Title: Historical blast furnace in Peklo valley of L'ubietova (Slovakia) and its reconstruction using 3D modelling

Author(s): Rybar, P (Rybar, Pavol); Hroncek, P (Hroncek, Pavel)

Source: Acta Montanistica Slovaca **Volume:** 21 **Issue:** 4 **Pages:** 333-341 **Published:** 2016

Times Cited in Web of Science Core Collection: 0

Total Times Cited: 0

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Cited Reference Count: 14

Abstract: In Slovakia, several ironwork regions were preserved up to these days. Dominant technical structures preserved in these areas are ironworks furnaces of different ages and different shapes. The paper presents the history of an iron blast furnace at the ironworks site in Peklo valley near Lubietova, one of the Upper Hungary' royal mining towns. The site is being currently studied as a metallurgical location with minimal ironworks relics preserved, considering relics of old metallurgical heaps in particular. Credible history of the site with a focus on the beginning, development and the destruction of the blast furnace technical object was reconstructed based on historical, archival and field research. We pointed out the causes of the end of the blast furnace and mapped the preserved relics of metallurgical production. We have determined the exact position and created a 3D model based on the information about the furnace form from the late 18th century despite the lack of preserved field relics. We have been working with the software AutoCAD 2012 and results were imported into SketchUp Pro Software 2013, from where the model was placed in the GoogleEarth environment.

Accession Number: WOS:000392917000009

Language: English

Document Type: Article

Author Keywords: Ironworks regions; ironworks; blast furnace; historical mining; historical metallurgy; computer reconstruction of historical blast furnace; 3D visualisation; archival research of historical maps; field research of the relief relics

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Record 6 of 8

Title: Relics of manual rock disintegration in historical underground spaces and their presentation in mining tourism

Author(s): Hroncek, P (Hroncek, Pavel); Rybar, P (Rybar, Pavol)

Source: ACTA MONTANISTICA SLOVACA **Volume:** 21 **Issue:** 1 **Pages:** 53-66 **Published:** 2016

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Abstract: The article chronologically and methodically describes relics of the manual underground excavation preserved on the walls of the Slovak underground works. The analyzed relics a manual excavation may be used as geotouristic objects. These attractive micro shapes hardly identified in the underground by visitors, are presented only in Banska Stiavnica Mining Museum. We offer examples of relics after the manual disintegration of rocks in the underground, according to the development of the technology of the disintegration and hardness of rocks. As a result of our long-term studies of the underground, in the main part of this article we describe examples from Slovak territory. Presented can serve as a basic guide for geotourism reason, while visiting underground. Furthermore, it makes easier the identification of historical technology used for the rock disintegration and explains the various genesis of relics to experts, tourist guides and visitors.

Accession Number: WOS:000384749800007

Language: English

Document Type: Article

Author Keywords: Manual rock disintegration technology; historical anthropogenic underground space; relics a manual disintegration of rocks; geotourism; mining tourism; mining heritage

KeyWords Plus: WATER

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Record 7 of 8

Title: LOST MINING LANDSCAPES AND THEIR USE IN GEOTOURISM. A CASE STUDY FROM THE DOLINA PEKLO - HELL VALLEY IN THE CENTRAL SLOVAKIA

Author(s): Hroncek, P (Hroncek, Pavel); Liga, J (Liga, Jan)

Book Group Author(s): SGEM

Source: GEOCONFERENCE ON ECOLOGY, ECONOMICS, EDUCATION AND LEGISLATION, VOL II **Book Series:** International Multidisciplinary Scientific GeoConference-SGEM **Pages:** 415-422 **Published:** 2014

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Abstract: The mining tourism of today focuses mainly on the preserved relics of mining landscapes, whether they are represented by the terrain shapes on the surface or underground, the existing buildings and technical equipments and their relics, or residential buildings and various mining points of interest in the landscape. These historical mining landscape are accessed by visitors via various sightseeing tours, educational trails, bicycle trails etc., whose common feature is the necessity of the in situ presence of stationary posters and information panels.

Slovakia has many medieval and early Modern Age mining sites, which rank among the most important in their period, but many of them lack any preserved and visible mining relics in the present landscape. A similar situation is also in the Peklo Valley situated in the hinterland of the former free royal town Lubietova (Central Slovakia), which belonged to the most important mining sites in Hungary in the 19th century.

The mining and metallurgical site Peklo (Hell) was reconstructed upon the research of archival documents and historical maps. We have reconstructed the possible landscape appearance in the 17th - 18th century. A smelter (the Slovak blast furnace) for the smelting of iron ore mined in the local mines was situated here. The waterwheel was used to blow air into the blast furnace. The second waterwheel in this site was used to propel the watermill. A network of waterways and pipes was present, together with the place for charcoal burning, as well as a warehouse for charcoal and tools storage. The site contained three wooden cottages built for miners, metallurgists, woodcutters and charcoal burners. A hereditary mining gallery was a part of the complex apart from galleries for iron ore mining.

We have created a 3-dimensional landscape model of the site in the given historical period,

based on archival and field research. The site visualization could be freely available on the Internet in the future and tourists would be able to download it to their portable computers or mobile devices.

Historical mining sites presented in this form and freely available directly from the field, will represent an important part of the mining tourism in the coming years.

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Document Type: Proceedings Paper

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Author Keywords: lost mining landscapes; mining tourism; Peklo Valley; 3-D landscape model; geotourism

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Record 8 of 8

Title: Mining of brown coal in the southern Slovak brown coal basin in the inter-war period

Author(s): Hroncek, P (Hroncek, Pavel)

Source: HISTORICKY CASOPIS **Volume:** 59 **Issue:** 1 **Pages:** 57-79 **Published:** 2011

Times Cited in Web of Science Core Collection: 1

Total Times Cited: 1

Usage Count (Last 180 days): 0

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Abstract: HRONCEK, Pavel. Mining of brown coal in the southern Slovak brown coal basin in the inter-war period. Historicky, casopis, 2011, 59 1, pp. 57-79, Bratislava.

This study presents the history of brown coal mining in the southern Slovak brown coal basin according to archive research in the inter-war period. We have written the mining history on the basis of documents located in the State Mining Archive in Banska Stiavnica, the State Archive in Banska Bystrica and its branch at Vel'ky, Krtis and in the Archive of the Dolina mine in Vel'ky Krtis.

We have processed the history of these localities where mining of brown coal mining occurred in the analysed period after establishment of particular mining locations according to cadastral territories. Mining is considered as a process by which coal was obtained to be sold commercially or used in the agricultural economy. We analysed a total of 13 localities.

Accession Number: WOS:000290190500003

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Document Type: Article

Author Keywords: Mining; history of brown coal mining; Southern Slovak brown coal basin; inter-war period

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