

## OBSAH

### **Matej Ruttkay**

Moderná dokumentácia archeologických situácií a nálezov v Archeologickom ústave SAV .....	5
Modern Documentation of Archaeological Situations and Finds in the Institute of Archaeology of the Slovak Academy of Sciences .....	54

### **Eva Horváthová – Rastislav Hreha**

Archeologická prospekcia Zemplína vo svetle starších a novších prameňov .....	59
Archaeological Prospecting of Zemplín in the Light of Older and Newer Sources .....	94

### **Monika Gabulová**

Štúdium krajiny a osídlenia na hornom Požitaví v praveku až včasnej dobe dejinnej .....	97
Study of the landscape and settlement on the upper Žitava river basin during the prehistory through the early historic Age .....	165

### **Marek Vojteček**

Stredoveké dedinské sídlisko v Bitarovej .....	169
Medieval settlement village in Bitarová .....	185

Skratky časopisov a periodík .....	187
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# MODERNÁ DOKUMENTÁCIA ARCHEOLOGICKÝCH SITUÁCIÍ A NÁLEZOV V ARCHEOLOGICKOM ÚSTAVE SAV

**Matej Ruttkay**

## **Modern Documentation of Archaeological Situations and Finds in the Institute of Archaeology of the Slovak Academy of Sciences**

The paper presents work procedures developed within the project Centre for the Research into the Oldest History of the Middle Danube River Basin. One of the activities is a search for and testing of new methods and technologies in the areas of documentation and presentation – photography, 2D and 3D photogrammetry, 3D scanning, visualisation, modelling 3D printing. We introduced the search for archaeological sites using various kinds of historical maps, orthophotomaps, satellite images and GoogleEarth-Pro, and provided details of the procedures applied during various kinds of photogrammetric documentation (from the ground, from pilotless models, from aeroplane, or a combination). There is a short description of experience with the use of individual instruments, from scanners for archaeological finds to the LIDAR. A special attention is given to the visualisation and digital modelling of movable and immovable archaeological finds. In the final part experience with a 3D printing of archaeological features is described. The obtained data are archived in the ISAU – a newly created Information System of the Institute of Archaeology. Practical experience confirms that there is no ideal method of 3D documentation suitable for all kinds of features. The outcomes are intensively used in the research process as well as during the documentation and renewal of archaeological cultural heritage, and, last but not least, for scientific popularisation aims in exhibitions and other events.

## ARCHEOLOGICKÁ PROSPEKCIA ZEMPLÍNA VO SVETLE STARŠÍCH A NOVŠÍCH PRAMEŇOV

**Eva Horváthová – Rastislav Hreha**

### **Archaeological Prospecting of Zemplín in the Light of Older and Newer Sources**

Archaeological prospecting of East Slovakia, in the area of the East Slovak Lowland, in part of the Sub-Slanec hills and near the Zemplín hills. Verification, detection and GPS measuring of the accessible archaeological sites in the villages of Brehov, Brezina, Cejkov, Hrčeľ, Kazimír, Kuzmice, Kysta, Lastovce, Michalany, Slivník, Veľká Trňa and Zemplín, which are administratively included in the district of Trebišov, the region of Košice.

## ŠTÚDIUM KRAJINY A OSÍDLENIA NA HORNOM POŽITAVÍ V PRAVEKU AŽ VČASNEJ DOBE DEJINNEJ

**Monika Gabulová**

### **Study of the landscape and settlement on the upper Žitava river basin during the prehistory through the early historic Age**

In proposed study I am dealing with the natural environment and the structure of settlements in the area of upper basin of river Žitava. Geographical informational systems (GIS) and statistic methods have greatly contributed to the study of landscape and settlements. Utilization of GIS in analyses lies in the graphic representation of an individual indicator on separate layers, which are being overlapped and combined. The time frame, analyzed in this paper, includes the neolithic period up to the early historic age and it also indicates on the development during the early Middle Age.

The analysis is focused on the spatial context, landscape properties at the site of settlements, relations with surrounding environment and on the settlement structure. The objective was to review the settlements variability in individual periods of time according to the measured values, to evaluate the settlement in relation to the natural environment, landscape and the settlement structure within separate periods of time.

## STREDOVEKÉ DEDINSKÉ SÍDLISKO V BITAROVEJ

**Marek Vojteček**

### **Medieval Village Settlement in Bitarová**

The Study presents results from the rescue archaeological excavation in Bitarová in year 2010. Excavation was induced by the construction of highway D1 Hričovské Podhradie-Dubná Skala. At the location Lány in Bitarová altogether 39 settlement objects, dated to the Púchov culture and Middle Age, were excavated. Torso of a defunct village settlement dated to the 12<sup>th</sup>–13<sup>th</sup> century represents the most significant horizon and it is the main subject of this study. It is mostly the remains of economic hinterland of the village stretching along both sides of Bitarovský stream.