ZIRIDAVA STUDIA ARCHAEOLOGICA 34

2020

MUSEUM ARAD



ZIRIDAVA STUDIA ARCHAEOLOGICA

34 2020

Editura MEGA Cluj-Napoca 2020

MUSEUM ARAD

EDITORIAL BOARD

Editor-in-chief: Florin Mărginean, Victor Sava. Editorial Assistants: Norbert Kapcsos.

EDITORIAL ADVISORY BOARD

Vitalie Bârcă (Institute of Archaeology and Art History, Cluj-Napoca, Romania) Adina Boroneant ("Vasile Pârvan" Institute of Archaeology, Bucharest, Romania) Marin Cârciumaru (Valahia University of Târgoviște, Romania) Sorin Cociş (Institute of Archaeology and Art History, Cluj-Napoca, Romania) Dragos Diaconescu (The National Museum of Banat, Timișoara, Romania) Daria Loznjak Dizdar (Institute of Archaeology, Zagreb, Croatia) Alin Frînculeasa (Prahova County Museum of History and Archaeology, Ploiești, Romania) Erwin Gáll ("Vasile Pârvan" Institute of Archaeology, Bucharest, Romania) Florin Gogâltan (Institute of Archaeology and Art History, Cluj-Napoca, Romania) Adrian Ioniță ("Vasile Pârvan" Institute of Archaeology, Bucharest, Romania) Hrvoje Kalafatić (Institute of Archaeology, Zagreb, Croatia) Aleksandar Kapuran (Institute of Archaeology, Belgrade, Serbia) Rüdiger Krause (Johann Wolfgang Goethe-Universität Frankfurt, Germany) Tobias Kienlin (Universität zu Köln, Germany) Valéria Kulcsár (University of Szeged, Hungary) Sabin Adrian Luca (Lucian Blaga University, Sibiu, Romania) Barry Molloy (University College Dublin, Ireland) Sorin Nemeti (Babeş-Bolyai University, Romania) John O'Shea (University of Michigan, USA) Karl Zeno Pinter (Lucian Blaga University, Sibiu, Romania) Ioan Stanciu (Institute of Archaeology and Art History, Cluj-Napoca, Romania) Imre Szatmári (Munkácsy Mihály Museum, Békéscsaba, Hungary) Miklos Takács (Institute of Archaeology of the Hungarian Academy of Sciences, Budapest, Hungary) Ioan Marian Tiplic (Lucian Blaga University, Sibiu, Romania)

In Romania, the periodical can be obtained through subscription or exchange, sent as post shipment, from Museum Arad, Arad, Piata G. Enescu 1, 310131, Romania. Tel. 0040–257–281847.

ZIRIDAVA STUDIA ARCHAEOLOGICA

Any correspondence will be sent to the editor: Museum Arad Piata George Enescu 1, 310131 Arad, RO e-mail: ziridava2012@gmail.com

The content of the papers totally involve the responsibility of the authors.

Layout: Francisc Baja, Florin Mărginean, Victor Sava

ISSN 2392-8786



EDITURA MEGA | www.edituramega.ro e-mail: mega@edituramega.ro

Contents

Emil Grigorescu Middle Neolithic at Oradea-Salca "Pepinieră"
Ana Fetcu, Alina Bințințan, Mihai Gligor An Early Eneolithic isolated non-adult burial from Alba Iulia – <i>Lumea Nouă</i> (Romania)
Alin Frînculeasa Earthen burial mounds and the Coțofeni Culture south of the Carpathians. The archaeological research in Ariceștii-Rahtivani – <i>Movila pe Răzoare</i>
Mária Bondár, Anna Szécsényi-Nagy Skull cult in the Late Copper Age91
Tünde Horváth, Attila Botond Szilasi Salgótarján–Baglyas-kő: A multi-period prehistoric site and medieval castle105
Călin Ghemiș The Bronze Age Shafthole Axe Discovered in Loranta, the Municipality of Brusturi, Bihor County119
Sofia Bertea Preliminary analysis of the bronze age pottery from Dudeștii Vechi- <i>Cociohatul Mic</i> 125
Alexandra Găvan, Marian Adrian Lie A casting mould uncovered in the Bronze Age tell settlement from Toboliu. Notes on the origin and distribution of socketed chisels
Andrei Stavilă, Alexandru Hegyi, Bogdan Alin Craiovan Non-invasive archaeological researches performed in the Middle Bronze Age settlement from Alioș- Valea Alioșu (Timiș County, Romania). Structures, chronology, and perspectives
Florin Gogâltan, Andrei Stavilă The Late Bronze Age Settlement from Giroc (Timiș County). The 1992–1993 archaeological excavations189
Ioan Cristian Cireap A spearhead discovered at Săvârșin – <i>Cetățuia</i> 243
Remus Mihai Feraru Feasts in Honor of Demeter in the Megarian Colonies on the Shores of Pontus Euxinus
Andrei-Cătălin Dîscă Roman Sites and Discoveries Around Potaissa (III). New Data and Clarifications Regarding the Topography of the Sites in Aiton
Sorin Nemeti, Ștefana Cristea New Reliefs Plaques from Pojejena (Caraș-Severin county) depicting the Danubian Riders
Igor' Khrapunov, Anastasiya Stoyanova A Grave with Roman Imports in the Cemetery of Opushki in the Crimea
Norbert Kapcsos An attempt to reconstruct the chronology of the Roman and Early Migrations Period in the Lower Mureș Valley

Vitalie Bârcă
Funerary Ditched Enclosures in the Sarmatian Funerary Ritual. Observations Regarding Their Introduction, Distribution, Use, and Dating
Călin Cosma Dwellings with Weapons from the Early Medieval Settlement in Sfântu Gheorghe (Mureș County)377
Melinda Takács Late Avar Age Sites in Szabolcs-Szatmár-Bereg County411
Margareta Simina Stanc, Daniel Ioan Malaxa, Dan Băcueț-Crișan The Exploitation of Animal Resources During the Early Medieval Period. Case Study: The Settlements in Popeni <i>Pe Pogor</i> and Cuceu <i>Valea Bochii</i> (Sălaj County)431
Daniela Tănase, Balázs Major Preliminary Data Regarding the Archaeological Research Performed between 2016 and 2019 at the Cistercian Abbey in Igriș/Egres, Timiș County
Florin Mărginean, Tamás Emődi The Medieval Church in Iermata Neagră – <i>Feketegyarmat</i> (Arad County)455
Dan Băcueț-Crișan A Medieval Knight Passionate about Dice games. The Spur Decorated with "Dice" Discovered in Aghireș <i>Sub pășune</i> (Sălaj county)
Andrea Demjén Glass Artefacts Uncovered at the Pricske Quarantine Facility (Harghita County)489
Calin Ghemis, Constantin Iosif Zgardan Oradea 1703–1710 – the Blockade Coins
Abbreaviations

Middle Neolithic at Oradea-Salca "Pepinieră"

Emil Grigorescu

Abstract: Following the excavations from 2014, 10 features containing neolithic ceramic were discovered. Based on their typological characteristics, I concluded that part of the ceramic fragments recovered from these features belong to the Middle Neolithic, and that the features are contemporary to the late phase (IV) of the Alföld Linear Pottery. These include the following ceramic styles: Esztár, Szilmeg and Bükk. They can be dated around 5250–5000 BC. An obsidian blade was also in one of these features, which was likely part of a sickle used for collecting grain. The considerations which result from this study can be used to argue for connections with the Zemplén and Bükk Mountains as well as with the Tisza Basin.

Keywords: Esztár; Szilmeg; Bükk; Oradea; Middle Neolithic.

Introduction and Context

From May till June 2014, due to planned construction in the area, a team of archaeologists and students of archaeology excavated in the area of the Salca site, in the "Pepinieră" point, on the southern bank of the Peța stream. Among other things, the researchers uncovered the remains of a Middle Neolithic habitation sequence.

According to the newest research¹ the peoples of the Neolithic Great Hungarian Plain descended from Anatolian farmers who over the generations settled parts of South-Eastern and Central Europe in Early and Middle Neolithic and mixed more and more with the local hunter-gatherers.

In the area, the habitation begins in the Early Neolithic, featuring finds of the Starčevo-Criş (also called Criş and Körös) along the Criş and Peța riversides². The middle neolithic finds contained in this article belong to the Bükk and Esztár-Raškovce-Lumea Nouă. Late neolithic finds are widespread along Peța's southern riverside and are presumed as belonging to the Herpály ceramic style group³ (Fig. 1). The distancing of the settlements from the course of the Criş river can be explained as a strategy to avoid the yearly spring floods generated by snow melt.

In regards to chronology, finds pertaining to the Middle Neolithic at Oradea-Salca "Pepinieră" are typologically similar to those of the Bükk, Esztár and Szilmeg pottery styles, thus placing them around the turn of the 6th Millenium BC.

Feature Description

As the ground had been disturbed by modern agricultural activities to a depth of about 50 cm, this part of the soil was removed with an excavator prior to the archaeological excavation of the features. As a result, most of the features were incomplete. Only pottery fragments with identifiable characteristics were recovered from the site.

Feature 21

The feature was intersected by the border of the research area and therefore has only been partially

¹ Lipson *et al*. 2017.

² http://ran.cimec.ro/sel.asp?descript=oradea-municipiul-oradea-bihor-asezarea-pluristratificata-de-la-oradea-salca-icod-sit-ran-26573.08

http://ran.cimec.ro/sel.asp?descript=oradea-municipiul-oradea-bihor-situl-medieval-de-la-oradea-salca-fabrica-de-bere-cod-sit-ran-26573.04

The settlement at Parcul Petőfi was situated on the northern terrace of the Paris stream, later renamed Pasteur (and currently running in a buried pipeline on a deviated course). On the other hand, the settlement at Pepinieră and Ioșia was situated on the southern terrace of the Adona stream, whose course (channeled at the end of the 19th Century) was used to deviate the Peța stream out of the city. Regarding the toponyms Salca I, Salca II, Ghețărie, Fabrica de Bere, see Fazecaș 2018, 87, notes 90–93.

³ Savu 2014; Luca 2000; Luca 2001a; Luca 2001b, http://cronica.cimec.ro/detaliu.asp?k=2041.



Fig. 1. Neolithic in Oradea.

investigated. The edges of the feature were hard to distinguish due to the similar color of the filling. For this reason we chose to use the grid layout method. Its maximum length was 2,68 m. Its width was 2,0 m. From the level of the mechanical excavation to the bottom, the pit measured 0,70 m. The filling consisted in the upper part of a compact, homogeneous, brown color and in the lower part of brownish yellow clay. A retouched obsidian blade⁴ likely part of a sickle, and several ceramic fragments were found therein. The ceramic features similar paste and firing to the Neolithic fragments from other features of the 2014 excavation.

1: rim and body fragment: ø = 15 cm; 10%; outer surface color: 8/4 10YR very pale brown with coating: 3/4 2.5YR dark reddish brown; inner surface color: 8/4 10YR very pale brown; paste color: 5/3 10YR brown; semi-fine ware, oxidative "sandwich" type firing; smooth surface, coarse paste, temper: very fine sand & fine ceramoclasts; (Pl. 1/2).

2: retouched gray translucent obsidian blade with sickle gloss (Pl. 1/3). *Feature 22*

The feature has been outlined based on the different color of the fill. At the surface, the pit was somewhat circular and kept this shape throughout the excavation. The walls were curved inwardly. The ground was slightly hollowed. The diameter of the pit's upper edge was approximately 1 m. The maximum depth from this level amounted to 0,36 m. The filling of the feature was composed of yellowish brown, low bulk density soil, with dark grayish earth spots. The inventory consisted of daub and ceramic fragments. The ceramic fragments display a paste similar to the others belonging to Middle Neolithic Esztár-Raškovce-Lumea Nouă style.

1: ceramic lid fragment (7,5% of rim circumference remaining); ø = 20 cm; outer coating color: 8/6 10YR; inner coating color: 8/4 2,5YR pink; paste color: 6/1 10YR gray; semi-fine ware, reducing "sandwich" type firing; smooth surface, coarse paste, temper: fine sand (Pl. 1/4).

2: ceramic body fragment; outer surface color: 8/3 10YR very pale brown, inner surface color: 4/2 10YR dark grayish brown, paste color: 4/1 5YR dark gray; semi-fine ware, oxidative firing; even surface, coarse paste, temper: very fine sand very finely crushed ceramic, 8/6 7.5YR reddish yellow; drilled in 6 places (Pl. 1/5).

Feature 35

This feature has been observed due to the fill contrasting with the undisturbed soil surrounding it. In the outlining stage, its shape was irregular, elongated along the E-W axis, but eventually turned

to be pear shaped. To the west, the walls curved down and descended in steps towards the base, while in the east, they were slightly concave. The ground is also hollow shaped. In the western side of the pit was a semicircular step. The feature measured 1,85 m long, 1,30 wide and 0,50 m deep. The fill has been homogeneous and consisted of rather compact dark brown earth with yellow clay and daub pigments. The inventory consisted of small daub and ceramic fragments which, based on the characteristics of paste and firing, can be attributed to the Middle Neolithic Esztár-Raškovce-Lumea Nouă style.

Ceramic vessel: body fragment; outer surface color: 8/4 10YR very pale brown, inner color: 8/6 7.5 YR reddish yellow; paste color: 5/1 7,5YR; coarse ware, zig-zag profile texture; oxidative "sandwich" type firing; rough surface; coarse paste, 8/4 10YR very pale brown; temper: very fine sand, fine ceramoclasts; style: Middle Neolithic Esztár-Raškovce-Lumea Nouă (Pl. 1/1).

Feature 40

When discovered, the upper edge of the pit was circular. Its walls tapered down, curving near the bottom. The NW side is slightly hollowed out and also shows a concavity at the base. The diameter amounts to 1.30 m, and the maximum depth to 0,44 m. The fill is somewhat homogeneous, consisting of relatively compact, homogeneous pale yellowish gray earth with yellow clay inclusions and sporadic daub pigments. Several ceramic fragments remain. Most were coarse but some also of fine paste, which featured red slip and painted decorations. These belong to the Middle Neolithic Esztár-Raškovce-Lumea Nouă style (Pl. 2/1, 4). One vessel stands out by virtue of its atypical firing temperature and shape (Pl. 2/3), and could be an intrusive element brought from upper layers of a much later date, however such vessels were reported among finds of Esztár pottery⁵.

1: 2 ceramic body fragments; semi-fine ware; oxidative firing outside, reducing inside; outer surface: texture: polished, color: 8/6 10YR yellow & paint 7/8 2,5YR light red; inner surface: texture: smooth and slightly shiny, color: 4/5B dark bluish gray; paste: temper: fine sand, color: 3/4B dark bluish gray; style: Esztár-Raškovce-Lumea Nouă (Pl. 2/1).

2: ceramic lobed rim fragment; outer color: 7/8 10YR shiny yellow with patch: 3/4B dark bluish gray, inner coating color: 7/4 5YR pink with patch: 2,5/5B bluish black, paste color: 8/4 10YR very pale brown; semi-fine ware, oxidative type firing; burnished surface; paste: fine; style: Esztár-Raškovce-Lumea Nouă (Pl. 2/2).

3: ceramic rim, body and base fragments (6 fragments); bottom $\emptyset = 4,5$ cm; outer surface color: 6/4 2,5Y shiny light yellowish brown, inner surface color: 7/3 2,5Y pale yellow, paste color: 4/5B dark bluish gray; very fine ware, oxidative firing; smooth surface, very fine paste (Pl. 2/3).

4: 4 ceramic rim & body fragments; fine ware; ø = 23 cm; rim: 12,5%; oxidative firing; outer coating: texture: smooth, color: 8/3 2,5YR pink with paint: 7/8 2,5YR light red superimposed with bitum: 2,5/5G dark grayish gray; inner surface: texture: burnished, color: 8/3 10YR very pale brown; paste: temper: fine sand, color: 2/1 10YR black; style: Esztár-Raškovce-Lumea Nouă (Pl. 2/4).

Feature 46

Cut in the natural soil, the pit was circular and had slanted walls, slightly leaning down inwardly. The ground was flat, with a few irregularities. The pit measured 1,20 m in diameter at the top and, from the outlining level 0,30 m deep. The fill was made up of at least two different levels. The upper consisted of lightweight, dark brown earth with daub and coals and the lower of rather compact pale brown earth mixed with yellow clay and a high number of ceramic fragments. Between the two there was a thin lens of yellow clay with red pigment. The inventory of the pit was made up of daub and ceramic fragments. One vessel fits very well in the Middle Neolithic Bükk ceramic style (Pl. 3/1). Another vessel shows similarities to Middle Neolithic Esztár-Raškovce-Lumea Nouă type pottery (Pl. 3/3), while the last one could be associated with Szilmeg due to hollowed out band and knob decoration (Pl. 3/4). Based on the profile drawing, it could be that there were in fact two overlapping features, with the later pottery in the upper layer. Despite the layers having been disturbed by the burrowing activity of a small-sized animal, the feature can be dated to the Middle Neolithic.

1: 12 ceramic fragments; fine ware; reducing firing; outer coating: texture: smooth, color: 7/4 10YR with patch: 5/5B bluish gray & inlay: white; inner coating: texture: smooth, color: 7/4B pale yellow; paste: temper: fine sand, color: 3/5B dark bluish gray; style: Bükk (Pl. 3/1).

2: 3 ceramic body fragments; fine ware; ø = 10; 20%;, reducing firing; outer surface: texture:

⁵ Kalicz 1977, 54.

smooth, color: 8/6 10YR yellow; coating: 3/4 10R very dusky red; inner surface: texture: smooth, color: 4/5B dark bluish gray; paste: temper: fine sand, color: 6/3 10YR pale brown; style: possibly Esztár-Raškovce-Lumea Nouă (Pl. 3/4).

3: 3 ceramic fragments; fine ware; Ø = 10; rim: 17,5%; oxidative firing outside, reducing inside; outer surface: texture: smooth, coating texture: polished, color: 8/67,5YR reddish yellow, coating color: 5/8 2,5YR red; inner surface: texture: smooth, color: 6/3 2,5Y light yellowish brown; paste:, temper: fine size crushed ceramic, color: 7/1 2,5Y light gray; style: Esztár-Raškovce-Lumea Nouă (Pl. 3/3). *Feature 70*

The feature has been observed due to the different color of the earth, compared with the surrounding natural yellow clay. Its shape was circular. The walls were relatively straight, slightly curved in some places, and the ground was flat. The diameter of the pit measured in the top part 1,24 m. The pit was considerably deep, namely 1,36 m. The contents were diverse: several layers of filling, as well as thin burn lenses. When emptying, it was observed that the walls present burn marks here and there. When it comes to the fill, a layer of lightweight dark brown earth with abundant daub pigments lay on top of a more compact, yellowish brown layer, just as pigmented as the previous. Another fill appeared in the southern half of the feature, quite substantial, consisting of yellowish clay, but without a lot scattered pigments, yet with clear lenses of burned clay. This level was, most likely, a stage of the collapse of the southern wall. Concluding, the lower part was made up of rather lightweight, pale brown earth, pigmented with daub and with black burn marks. It is distinctly possible that this pit functioned as a storage pit. Alongside the burned remains, which generally consisted of burned pieces of clay and coals, a number of ceramic and bone fragments were discovered. Based on the remains we can attribute the pottery to the Esztár-Raškovce-Lumea Nouă style (Pl. 4).

1: 6 ceramic fragments; fine ware; Ø = 12 cm; oxidative firing; outer surface: texture: smooth, color: 8/6 7,5YR reddish yellow & paint: 7/8 2.5YR light red & bitum 2,5/5G dark grayish gray & white applied and then washed off in patterns with 5/2 10YR grayish brown; inner surface: texture: smooth, color: 8/6 7,5YR reddish yellow; paste: temper:, color: 5/5B bluish gray; style: Esztár-Raškovce-Lumea Nouă (Pl. 4/2).

2: 1 ceramic fragment; fine ware; \emptyset = 36 cm; oxidative firing; outer surface: texture: smooth, color: 8/3 10YR very pale brown; inner surface: texture:, color: 8/3 10YR very pale brown & paint: 5/3 10R weak red; paste: temper: very fine sand, color: 8/3 10YR very pale brown (Pl. 4/3).

Feature 94

The pit stood out from the surrounding yellow clay, having a relatively circular shape, curved walls, and a flat bottom with some irregularities. This feature was slightly overlapped by feature 95 in the north. Its diameter was around 1,65 m and its depth 1,12 m. The upper part was filled with somewhat compact brown earth, sparsely pigmented (and with black burn lenses), and the lower part with compact, slightly pigmented, yellowish brown soil. The inventory consisted of several ceramic fragments which could belong to the Middle Neolithic.

4 ceramic fragments: bottom and knob; coarse ware; bottom: $\emptyset = 11,5$ cm; 100%; firing; outer surface: texture: semi-smooth, color: 8/2 7.5YR pinkish white & patch on knob 8/3 2.5YR pink & bottom 2.5/1 5YR black; inner surface: texture: semi-smooth, color: 8/2 2.5Y pale yellow; paste: temper: coarse sand, color: 5/5B bluish gray; (Pl. 4/1).

Feature 96 A and B

During excavation it had not been understood that there are two distinct circular features. Their walls were slanting down inwardly. The maximum length of the 96A (the larger feature) amounted to 2,9 m, the depth, from the level where the feature first appeared to the bottom, 0,70 m. The greater part of the fill had been homogeneous, more or less compact dark grayish brown soil with reddish pigments. Feature 96A had been cut by feature 96B in it's north-western part. The fill of the aforementioned feature consisted of yellowish brown earth with many ceramic fragments. The majority of the recovered ceramic material is specific to the Early Bronze Age, most likely from 96B, but there are also some of CernavodăIII-Boleráz/Coţofeni I which should pertain to 96A. There is also a ceramic fragment which exhibits the characteristics of the Middle Neolithic Esztár-Raškovce-Lumea Nouă (plate 4/5), which could have been brought up into the later CernavodăIII-Boleráz/Coţofeni I layer when the feature was dug.

1: 1 body fragment; fine ware; oxidative firing outside, reducing inside; outer surface: texture:

smooth, color: 8/6 7.5YR reddish yellow & paint 7/8 5YR reddish yellow; inner surface: texture: smooth, color: 5/5B bluish gray; paste: color: 7/2 7.5YR pinkish gray; style: Esztár-Raškovce-Lumea Nouă (Pl. 4/5).

Feature 102

The feature has been delineated according to the difference of color between the pit's filling and the surrounding natural soil. It is irregular in shape (vaguely oval), disposed on the E-W axis. In the eastern part, the walls slightly curved inwardly at the bottom, while in the western part the walls were a bit concave. The ground was flat, with small bumps. The size of the pit was 3,40 m \times 1,80 m, the maximum depth of the pit was 58 cm. The filling was somewhat homogeneous, formed from more or less compact, dark grayish brown earth, with daub pigments and infrequently coal. Ceramic and bone fragments were found in the filling, as well as stones and some bigger pieces of daub. Based on the ceramic fragments, the feature has been attributed to the Bolerasz/Cernavodă III cultural phase. Among these ceramic fragments are also a few displaying characteristics of the Middle Neolithic Esztár-Raškovce-Lumea Nouă style, no doubt in secondary position (Pl. 4/1–3).

1: ceramic fragment; fine ware; reducing firing; outer surface: texture: smooth, color: 8/4 7.5 YR pink surface & 6/8 5YR reddish yellow coating & area with 8/2 2.5Y pale yellow surface & 8/4 10YR very pale brown coating & 4/N dark gray patch; inner surface: texture: smooth & slightly shiny, color: 6/B bluish gray; paste: temper: fine sized chaff, color: 6/B bluish gray; style: Esztár-Raškovce-Lumea Nouă (Pl. 4/6).

2: ceramic fragment; semi-fine ware; reducing firing; outer surface: texture: semismooth, color: 8/4 10YR very pale brown surface & 6/8 5YR reddish yellow coating; inner surface: texture: smooth & slightly shiny, color: 6/B bluish gray; paste: temper: fine sized chaff, color: 6/G greenish gray (Pl. 4/7).

3: ceramic fragment; semi-fine ware; reducing firing; outer surface: texture: semismooth, color: 8/4 10YR very pale brown; inner surface: texture: semi-smooth, color: 6/2 2.5Y light brownish gray; paste: temper: very fine sand, color: 6/B bluish gray (Pl. 4/4).

4: 2 ceramic fragments; fine ware; ø = 12 cm; 18%; reducing firing; outer surface: texture: smooth, color: 8/4 10YR very pale brown surface & 8/4 5YR pink coating; inner surface: texture: semi-smooth, color: 8/4 10YR very pale brown; paste: color: 6/B bluish gray (Pl. 4/8).

Feature 110

The feature stood out from the yellow clay due to the different color. It was a circular pit. Its walls slanted down inwardly and the bottom was a bit deeper in the center. The pit measured around 1,80 m in diameter and was about 0,60 m deep. The filling consisted of compact, dark yellowish brown soil. A horn belonging to a stag lay on the bottom of the pit. Aside from this, ceramic fragments were found, which are characteristic to Esztár-Raškovce-Lumea Nouă style.

Ceramic fragment; fine ware; reducing firing; outer surface: texture: semismooth, color: 8/4 7.5 YR pink; inner surface: texture: semi-smooth, color: 7/2 7.5 YR pinkish gray; paste: temper: fine sand & chaff, color: 4/B dark bluish black (Pl. 3/2).

Interpretation

The painted pottery fragments at Oradea-Salca "Pepinieră" point have light-colored outer surface adorned with wide or narrow strips of red paint and black bitumen. One vessel was recovered which was painted in slender, even-sized red strips gradually fading together into broad strokes, over which were fine undulating lines of white color. Although red and black painted pottery from the Oradea-Salca site has been argued in the past⁶ to belong to the Late Neolithic Herpály, for the ceramic from features 40 and 46 there is a stronger analogy with those from the Middle Neolithic horizon of Esztár-Raškovce-Lumea Nouă. That is because of the fine paste, fine slip (Pl. 2/40:1–4), wavy lines in the pattern (Pl. 2/40:4), and because the red/black paint was applied before firing (Pl. 2/40: 1, 4)⁷. It is possible that the fine mug from feature 40 belongs also to this culture due to it's high firing temperature and fine paste which gives off a characteristic high-pitch sound when hit on a hard surface. This unusual type of pottery has been reported among finds of the Esztár pottery style⁸. The lobed

⁶ Savu 2014; Luca 2000; Luca 2001A; Luca 2001B; Bodea 2019, fig. 10.

⁷ Kalicz et al. 1977 Taf. 118/7, 9; 144/18; 176/20a, b.

⁸ Kalicz et al. 1977, 54; 123/13.

fragment from feature 40 also finds analogies in the ALP⁹. Furthermore, Oradea-Salca is found within its distribution area¹⁰. Though highly fragmentary, it could be presumed that also other fragments belong to this style due to their high degree of similarity in paste and firing (Pl. 1/35:1; 1/21:1; 1/22:4, 5; Pl. 2/40: 1, 2; Pl. 3/46:4; Pl. 4/70: 2,3; 94:1; 96A&B:5; 102:4,6,7,8).

The breast-shaped pottery fragment in feature 46 (Pl. 3/46:5), is an example of hollowed knob and bands decoration of the Szilmeg pottery style¹¹. Several other ceramic fragments from feature 46 (Pl. 3/46:2) exhibit an intricate incised geometric decoration inlaid¹² with a white substance¹³. The pattern consists of dashed zig-zag and oblique lines. In actuality, the zig-zag scheme is the same as that of the much earlier Bükk style pottery, which also features incised decoration inlaid with a white mixture of kaolinite, quartz and feldspar¹⁴. The Bükk culture is dated around the turn of the 6th Millennium BC¹⁵. These fragments may very well be part of an imported vessel from the Bükk mountain area.

In feature 21 an obsidian blade fragment was found (Pl. 1/21:3), bearing minute traces of abrasion (sickle gloss) over all it's surface. This type of wear occurs as a result of repetitively cutting plants in the harvest season¹⁶, which can indicate that it was a part of a sickle. Furthermore it is retouched on one side. In Central and Eastern Europe, obsidian implements are mostly found in Neolithic features. Their use decreases in the Copper Age, but persists into the Bronze Age¹⁷. The eastern Bükk Culture seems to be in connection with the production of obsidian implements in the Middle Neolithic¹⁸. Possible sources of obsidian nearest to Oradea-Salca are in the Zemplén Mountains, north-east of Miskolc and in the Ukrainian Carpathians (Gertsovtse – Fedeleshovtse, Khust, Mukačevo and Beregovo localities). Translucent, grey, glassy obsidian, such as this one is more often found in South-East Slovakia¹⁹. Furthermore, a number of studies done on obsidian implements show that from Early to Middle Neolithic, the Zemplén Mountains and the Ukrainian Carpathians were the main source of obsidian, primarily for the Carpathian Basin, but not only²⁰. These have continued to be used into the Bronze Age²¹. In the time period between Vinča A and B1 (shown to be contemporary to Esztér and Bükk) in the Timiș River Basin south of the Mureș River, the material was imported from Čejkov in the Zemplén Mountains²². Such a connection sounds plausible also due to proximity and the similar pottery (Bükk), which can also be found in that area²³. Given all these considerations, the origin of the obsidian seems to be the South-Eastern Slovakian Zemplén Mountains²⁴.

Based on thickness, diameter and decoration, we can assume that the fragmentary painted bowl from feature 40 (Pl. 2/40:4) was used for food serving, while the small bowls from features 46, 70, and 102 (Pl. 3/46:1,3; 70:2; 102:8) and the fine cup (Pl. 2/40:3) for drinking. The knobbed vessels from features 35 and 94 (Pl. 1/35:1; Pl. 4/94:1) might have been used for cooking or food storage.

The absolute chronology of Esztár is an ongoing debate. Hertelendi dated in 1995 Szakálhát-Esztár-Bükk between 5260 to 4880 cal. BC²⁵. From Pólgar-Ferenci-hát there is a dating between

¹³ Virag 2013, Pl. V/3, VIII/2, 5; Kalicz 1977, 46.

²⁵ Hertelendi *et al.* 1995, table 1.

⁹ Kurucz 1989, 22–23.

¹⁰ Raczky, Anders 2003, fig 1.

¹¹ Kalicz *et al.* 1977, 372, Taf. 176/20 for the hollowed knob and Taf. 175/19, 24 for the hollowed bands.

¹² In many publications the word used is erroneously "encrusted", or "incrusted" because of the similarity of these words to the Hungarian and Romanian synonyms of the English "inlay", see Virag 2013; Mihály *et al.* 2010; Szilágyi 2014.

¹⁴ Mihály et al. 2010 Fig. 1/EBDE–132, EBDE–133.

¹⁵ Piatničková 2010.

¹⁶ Vardu *et al*. 2010.

¹⁷ Thrope 1978, fig. 5.3, 177–178.

¹⁸ Kaczanowksa *et al*. 1994, 61.

¹⁹ Thrope 1978, 146–177; Biró 2006, 272.

²⁰ Burgert 2015, Obr. 2; Glascock *et al.* 2017, 180; Biagi *et al.* 2007, 141 (although in this study the dating is uncalibrated, and the lack of exploitation sites in the Early Neolithic Zemplén Mountains might be due to a lack in research: see Mester *et al.* 2010); Dobrescu *et al.* 2016, fig. 12; Boroneanț *et al.* 2018A, fig. 6; Boroneanț *et al.* 2018B, 21. Even contemporary obsidian tools found on the territory of modern day Bulgaria and the Wallachian Plain seem to be originating in the Zemplén Mountains: Bonsall *et al.* 2017A; Boroneanț *et al.* 2019; Bonsall *et al.* 2017B, 51.

²¹ Glascock *et al*. 2017.

²² Glascock *et al.* 2015, 47; Glascock *et al.* 2016, 80.

²³ Csengeri 2015.

²⁴ Also called Prešov Mountains, and by specialists Carpathian 1 (see Biró 2006: 271–272).

5293–5068 cal. BC^{26} . A correlation of Vinča A to B1 and Esztár finds at Satchinez in the Mureș River Basin places the dates at 5180/5040–5130/5040 cal BC^{27} .

Conclusion

The Middle Neolithic finds from Oradea-Salca "Pepinieră" are, for the time being the first ones for Oradea to be identified as such for this area. Initially, Middle Neolithic finds from Oradea-Salca were thought to belong to the Late Neolithic²⁸ Herpály II-III phases, but upon closer inspection, stronger analogies are found in the Middle Neolithic, with a dating around 5250–5000 BC. They probably constitute a small part of a settlement, most of which was destroyed in the construction works on the western side of the excavation area. The settlement was plausibly connected with the Zemplén Mountains area, from which they procured the obsidian for harvest works as shown by the obsidian sickle blade fragment. Further connections are evidenced with the Bükk Mountains area and the Tisza River Basin.

Acknowledgements

Pál Raczky's help was invaluable in assessing the pottery style for features 40 and 46. Florin Drașovean suggested articles regarding the dating. Gruia Fazecaș supplied information regarding the history of research and modern geographical references in the bibliography, and Florin Gogâltan provided the archaeological material and site documentation, as well as guidance in arranging the figures. Equally useful were Victor Sava's bibliographic suggestions regarding archaeological obsidian studies.

Emil Grigorescu Babeș-Bolyai University Cluj-Napoca, RO lime94g@gmail.com

BIBLIOGRAPHY

Biagi <i>et al.</i> 2007	P. Biagi, B. Gratuze, S. Boucetta, New Data on the Archaeological Obsidians from the Banat and Transylvania (Romania). In: M. Spataro, P. Biagi (Eds.), A Short Walk through the Balkans: the First Farmers of the Carpathian Basin and Adjacent Regions. Società Preistoria Protostoria Friuli-V.G., Trieste, Quaderno 12, 2007, 129–148.
Biró 2006	K. T. Biró, <i>Carpathian Obsidians: Myth and Reality</i> . 34th International Symposium on Archaeometry 3–7 May 2004. Zaragoza 2006, 267–277.
Bonsall <i>et al</i> . 2017A	C. Bonsall, N. Elenski, G. Ganecovski, M. Gurova, G. Ivanov, V. Slavchev, R. Zlateva- Uzunova, <i>Investigating the provenance of obsidian from Neolithic and Eneolithic sites in</i> <i>Bulgaria</i> . Antiquity 91 356, e3, 2017, 1–6.
Bonsall <i>et al</i> . 2017B	C. Bonsall, N. Elenski, G. Ganecovski, M. Gurova, G. Ivanov, V. Slavchev, R. Zlateva- Uzunova, A. Bakamska, <i>Tracing the source of obsidian from prehistoric sites in Bulgaria</i> . Bulgarian e-Journal of Archaeology 7, 2017, 37–59.
Boroneanț <i>et al</i> . 2018A	A. Boroneanț, V. Diaconu, C. Bonsall, <i>Obsidian finds from the Early Neolithic site at Grumăzești – Deleni, Neamț County</i> . Materiale și Cercetări Arheologice (serie nouă) XIV, 2018, 25–31.
Boroneanț <i>et al</i> . 2018B	A. Boroneanț, C. Virag, C. Astaloș, C. Bonsall, <i>Obsidian finds from the Early Neolithic site at Grumăzești – Deleni, Neamț County</i> . Materiale și Cercetări Arheologice (serie nouă) XIV, 2018, 13–23.
Boroneanț et al. 2019	A. Boroneanţ, P. Mirea, A. Ilie, C. Bonsall, Obsidian finds from the Early Neolithic site at Grumăzeşti – Deleni, Neamţ County. Materiale şi Cercetări Arheologice (serie nouă) XV, 2019, 27–40.

²⁶ Raczky, Anders 2009, 45.

²⁷ Horváth *et al.* 2013, 118, for another dating of Vinča A and B1, see Drașovean 2014, tab. 1.

²⁸ Bodea 2019, fig. 10.

Burgert 2015	P. Burgert, <i>Štípaná industrie z obsidiánu v Čechách (Chipped industry from obsidian in Bohemia)</i> . Archeologické rozhledy 67, 2015, 239–266.
Csengeri 2015	P. Csengeri, <i>Middle Neolithic Painted Pottery from Borsod-Abaúj-Zemplén County,</i> <i>North-Eastern Hungary.</i> In: C. Virag (ed.), Neolithic Cultural Phenomena in the Upper Tisa Basin. International Conference. Satu Mare 2015, 127–160.
Dobrescu <i>et al</i> . 2016	R. Dobrescu, C. E. Ștefan, C. Bonsall. <i>Observations sur l'industrie en obsidienne découverte à Şoimuş – La Avicola (Ferma 2)</i> . Materiale și Cercetări Arheologice (serie nouă) XII, 2016, 45–56.
Drașovean 2014	F. Drașovean, On the Late Neolithic and Early Eneolithic Relative and Absolute Chronology of the Eastern Carpathian Basin. A Bayesian approach. In: W. Schier, F. Drasovean (eds.), The Neolithic and Eneolithic in Southeast Europe. New Approaches to Dating and Cultural Dynamics in the 6th to 4th Millennium BC. Rahden/Westf. 2014, 129–171.
Fazecaș 2018	G. Fazecaș, <i>Preistoria și Protoistoria</i> . In: G. Moisa, S. Șipoș, A. Chiriac, R. Romînașu (coord.), Istoria Bihorului. Oradea 2018, 75–118.
Glascock <i>et al</i> . 2015	M. D. Glascock, A. W. Barker, F. Drașovean, <i>Sourcing Obsidian Artifacts from Archaeological Sites in Banat (Southwest Romania) by X-Ray Fluorescence.</i> Analele Banatului, s.n., Arheologie – Istorie XXIII, 2015, 45–50.
Glascock <i>et al</i> . 2016	M. D. Glascock, A. W. Barker, S. Băcueț-Crișan, F. Drașovean, M. Gligor, D. Negrei, Sourcing Obsidian Artifacts from Archaeological Sites in Central and Western Romania by X-Ray Fluorescence. Analele Banatului, s.n., Arheologie – Istorie, XXIV, 2016, 75–86.
Glascock <i>et al.</i> 2017	M. D. Glascock, A. W. Barker, I. A. Bărbat, B. Bobînă, F. Drașovean, C. Virag, Sourcing Obsidian Artifacts from Archaeological Sites in Central and Northwestern Romania by X-ray Fluorescence. Ephemeris Napocensis XXVII, 2017, 175–186.
Gulyás et al. 2011	S. Gulyás, P. Sümegi, Farming and/or foraging? New environmental data to the life and economic transformation of Late Neolithic tell communities (Tisza Culture) in SE Hungary. Journal of Archaeological Science 38, 12, 2011, 1–17.
Hertelendi <i>et al</i> . 1995	E. Hertelendi, N. Kalicz, P. Raczky, F. Horváth, M. Veres, E. Svingor, I. Futó, L. Bartosiewicz, <i>Re-Evaluation of the Neolithic in Eastern Hungary based on Calibrated Radiocarbon Dates</i> . In: G. T. Cook, D. D. Harkness, B. F. Miller, E. M Scott (Eds.), Proceedings of the 15th International 14C Conference. Radiocarbon 37/2, 1995, 239–244.
Horváth <i>et al</i> . 2013	F. Horváth, F. Drașovean, <i>Remarks on the Connections between the Banat and the Great Hungarian Plain at the Beginning of the Middle Neolithic (Satchinez–Alföld Linear Pottery–Esztár–Vinča)</i> . In: A. Anders, G. Kulcsár, G. Kalla, V. Kiss, G. Szabó (eds.), Moments in Time. Papers Presented to Pál Raczky on His 60th Birthday. Budapest 2013, 113–131.
Kaczanowska <i>et al</i> . 1994	M. Kaczanowska, J. K. Kozłowski, Environment and Highland Zone Exploitation in the Western Carpathians (VII-VI Millennium BP). In: P. Biagi, J. Nandris (eds.), Highland Zone Exploitation in Southern Europe. Monografie di «Natura Bresciana» 20, 1994, 49–71.
Kalicz et al. 1977	N. Kalicz, J. Makkay, <i>Die Linearbandkeramik in der Grossen Ungarischen Tiefebene</i> . Studia archaeologica 7, 1977.
Piatničková 2010	K. Piatničková, <i>Current State of Research on the Bükk Culture in Slovakia</i> . Archeometriai Műhely VII/4 2010, 237–248.
Kurucz 1989	K. Katalin. A nyíri Mezőség neolitikuma. PhD Thesis at Nyíregyháza, 1989.
Lipson <i>et al</i> . 2017	M. Lipson et al. <i>Parallel palaeogenomic transects reveal complex genetic history of early European farmers</i> . Nature 551, 2017, 268–284.
Luca 2000	S. A. Luca, C. Ilieș, S. Bulzan, <i>Noi cercetări arheologice la Oradea-Salca</i> . Studia Universitatis "Babeș-Bolyai" Cluj-Napoca, in Theologia Graeco-Catholica Varadiensis XLV (2000, 1), 109–163.
Luca 2001A	S. A. Luca, Cercetări arheologice la Oradea-Salcași câteva probleme legate de cultura Salca Herpály. Apulum 38, 1, 2001, 27–83.

Luca 2001B	S. A. Luca, Archäologische untersuchungen bei Grosswardein-Salcaund einige Probleme bezüglich der Salca-Herpály-Kultur. In: G. Drașovean (red.), Festschrift für Gheorghe Lazarovici Zum 60. Geburtstag. Bibliotheca Historica et Archaeologica Banatica 30. Timișoara 2001, 123–190.
Mester <i>et al</i> . 2010	Z. Mester, B. Rácz, <i>The spread of the Körös Culture and the raw material sources in the northeastern part of the Carpathian Basin: a research project</i> . In: J. K. Kozłowski, P. Raczky (eds.), Neolithization of the Carpathian Basin: Northernmost Distribution of the Starčevo/Körös Culture. Symposium Organized by the EU Project FEPRE (The Formation of Europe: Prehistoric Population Dynamics and the Roots of Socio-Cultural Diversity). Kraków 2010, 23–36.
Mihály <i>et al</i> . 2010	J. Mihály, C. Berthold, V. Szilágyi, V. Leno, J. Zöldföldi, P. Csengeri, T. K. Biró, A Bükki Kerámia Inkrusztált Díszítéseinek Vizsgálata Mikroanalitikai Módszerekkel. Archeometriai Műhely VII/4, 2010, 249–258.
Parkinson <i>et al</i> . 2004	W. A. Parkinson, A. Gyucha, R. W. Yerkes, A. Sarris, M. Hardy, M. Morris, Settlement Reorganization at the End of the Neolithic in Central Europe: Recent Research in the Körös River Valley, Southeastern Hungary. Eurasian Prehistory 2 (2)/2004, 57–73.
Raczky, Anders 2003	P. Raczky, A. Anders, <i>The internal relations of the Alföld Linear Pottery culture in Hungary and the characteristics of human representation</i> . In: P. Raczky, E. Jerem (hrsg.), Morgenrot der Kulturen. Frühe Etappen der Menschheitsgeschichte in Mittel- und Südosteuropa. Festschrift für Nándor Kalicz zum 75. Geburtstag. 2003, 155–182.
Raczky, Anders 2009	P. Raczky, A. Anders, <i>Régészeti Kutatások egy Késő Neolitikus Településen – Polgár-</i> <i>Bosnyákdomb</i> . Archaeologiai Értesitő 134, 2009, 5–21.
Savu 2014	M. Savu, <i>Neoliticul Târziu pe Valea Crișului Repede</i> . Master Thesis at the Babeș-Bolyai University. Cluj-Napoca 2014.
Szilágyi 2014	 V. Szilágyi, Katalin T. Biró, Gy. Szakmány, H. Taubald, J. Mihály, C. Berthold, J.S. Koós, J. Zöldföldi, <i>Petro-mineralogical and geochemical characterisation of Middle Neolithic Bükk Culture fine ware from Garadna, NE Hungary</i>. In: M: Martinón-Torres (Ed.), Craft and science: International perspectives on archaeological ceramics. Qatar, Doha 2014, 181–189.
Thrope 1978	O. W. Thrope. A Study of Obsidian in Prehistoric Central and Eastern Europe, and its Trace Element Characterization. Doctor Thesis at Bradford University, 1978.
Vardi <i>et al.</i> 2010	J. Vardi, A. Golan, D. Levy, I. Gilead, <i>Tracing sickle blade levels of wear and discard patterns: a new sickle gloss quantification method</i> . Journal of Archaeological Science 37, 2010, 1716–1724.



Plate 1. Inventory of the features 35, 21, 22.



Plate 2. Inventory of the feature 40.



Plate 3. Inventory of the features 46, 110.



Plate 4. Inventory of the features 94, 70, 102, 96 A&B.



Plate 5. General plan of the features in the area uncovered in 2014 (blue-Middle Neolithic, brown-Middle Neolithic in secondary position).



Plate 6. The plan and profile of the features 21, 22, 35, 40.



Plate 7. The plan and profile of the features 46, 96, 102, 110.



Plate 8. The plan and profile of the features 70, 94.

Abbreaviations

ActaArchHung	Acta Archaeologica Academiae Scentiarum Hungaricae.
AAC	Acta Archaeologica Carpathica, Cracow.
ActaMN	Acta Musei Napocensis, Cluj-Napoca.
ActaMP	Acta Musei Porolissensis, Zalău
AnArchRessoviensia	Analecta Archaeologica Ressoviensia, Rzeszów.
AAS at CEU	Annual of Medieval Studies at CEU, Budapest.
Apulum	Acta Musei Apulensis – Apulum, Alba-Iulia.
Alba Regia	Alba Regia, Székesfehérvár.
Antaeus	Antaeus, Budapest.
Arrabona	Arrabona, Győr.
ArhMed	Arheologia Medievală, Cluj-Napoca, Brăila, Reșița.
ArchBaltica	Archaeologia Baltica, Vilnius.
Arch.Inf	Archäologische Informationen.
ATS	Acta Terrae Septemcastrensis, Sibiu.
ArchÉrt	Archaeologiai Értesítö, Budapest.
Banatica	Banatica, Reșița.
BBMÉ	A Béri Balogh Ádám Múzeum Évkönyve, Szekszárd.
BUFM	Beiträge zur Ur- und Frühgeschichte Mitteleuropas.
BCMI	Buletinul Comisiei Naționale a Monumentelor, ansambluri situri istorice.
	București.
CommArchHung	Communicationes Archaeologicae Hungaricae, Budapest.
CCA	Cronica Cercetărilor Arheologice, Comisia Națională de Arheologie, București.
CIL	Corpus Inscriptionum Latinarum, Berlin.
СМА	Complexul Muzeal Arad.
Dolgozatok	Dolgozatok az Erdélyi Múzeum érem- és régiségtárából, Cluj.
Dolg.	Dolgozatok a Magyar Királyi Ferencz József Tudományegyetem Archaeologiai Intézetéből, Szeged.
Dolg. ÚS	Dolgozatok az Erdélyi Múzeum Érem- és Régiségtárából, Új Sorozat. Cluj-Napoca / Kolozsvár.
EphNap	Ephemeris Napocensis, Cluj-Napoca.
HOMÉ	A Hermann Ottó Múzeum Évkönyve. Miskolc.
JAHA	Journal of Ancient History and Archaeology, Cluj-Napoca.
JAM	Jósa András Museum, Nyíregyháza.
JPMÉ	Janus Pannonius Múzeum Évkönyve.
JRGZM	Jahrbuch des Romisch-Germanischen Zentralmuseums, Mainz.
KRRMK	Kaposvári Rippl Rónai Múzeum Közleményei, Kaposvár.
LMI	Lista monumentelor istorice, updated in 2015.
MittArchInst	Mitteilungen des Archäologischen Instituts der Ungarischen Akademie der Wissenschaften.
MOL	Magyar Olaj- és Gázipari Részvénytársaság / Hungarian Oil and Gas Public Limited Company
Marisia	Marisia, Târgu Mureș.
NyJAMÉ	A nyíregyházi Jósa András Múzeum Évkönyve, Nyíregyháza.
PBF	Praehistorische Bronzefunde. Berlin.
Przegląd Archeologiczny	Przegląd Archeologiczny, Wrocław.
Rad	Jósa András Museum, Archaeological Archive
RégFüz	Régészeti Füzetek, Budapest.

512 • Abbreviations

RKM	Régészeti Kutatások Magyarországon/Archaeological Investigations in Hungary, Budapest.
RAJ Arad	Repertoriul Arheologic al Mureșului Inferior. Județul Arad. Timișoara 1999.
RAN	Repertoriul Arheologic Național.
Sargetia	Sargetia. Acta Musei Devensis, Deva.
SCIV(A)	Studii și Cercetări de Istorie Veche și Arheologie, București.
SGB	Studii de Geografie a Banatului, Timișoara.
SIB	Studii de Istorie a Banatului, Timișoara.
Slavia Antiqua	Slavia Antiqua, Poznań.
SlovArch	Slovenská Archeolóogia, Nitra.
SMK	Somogyi Múzeumok Közleményei, Kaposvár.
SovArh	Sovetskaja Arheologija, Moskva.
SRTM	Shuttle Radar Topography Mission.
StudiaUBB Historia	Studia UBB Historia, Cluj-Napoca.
SzKMÉ	A Szántó Kovács Múzeum Évkönyve, Pécs.
Századok	Századok, Budapest.
Terra Sebus	Terra Sebus. Acta Musei Sabesiensis, Sebeș.
Tibiscum S. N.	Tibiscum S. N., Caransebeș.
TransRev	Transylvanian Review, Cluj-Napoca.
ZalaiMúz	Zalai Múzeum, Zalaegerszeg.
ZSA	Ziridava. Studia Archaeologica. Arad.
Živa Antika	Živa Antika, Skopje.