We usually obtain new archaeological relics during earthworks of various kinds, when archaeological contexts and finds are discovered; however, such sites can also be damaged or even destroyed. Thus, it is important to monitor the preparatory works at building sites and try to save as many archaeological features with great historical value as possible. In the last 25 years, several large construction projects have been carried out at the southeastern edge of Košice. Several new sites associated with Neolithic as well as Bronze Age cultures were discovered and investigated during those construction works. The archaeological relics obtained from them serve as a basis for observing the spread of Neolithic civilization in the Košická kotlina basin and the south of Eastern Slovakia.

**History of research on the Neolithic settlement in Košice**

Sherds and lithic industry suggesting a possible Neolithic settlement were sporadically found on the left-bank terrace of Myslavský potok stream. The space from Košice to Šaca as far as Košice-Barca is divided into two areas on maps. In the western part, the smaller site of Červený rak is situated; the larger eastern part, reaching as far as Košice-Barca, is indicated as the site of Galgovec.

In 1966, Barca III group relics were found at the Košice-Barca-Svetlá III site on the right-bank terrace of the Myslavský potok stream and west of it relics of the Tiszadob group and Bükk culture were found. The oldest Neolithic monuments were studied in...
1980 at the Košice-Červený rak site. They belonged to the initial phase of the Eastern Linear Pottery culture, known as the Proto-Linear phase.³

Later, in 1997, when road I/50 from Košice-Červený rak to VSS Košice was relocated, traces of intense settlement of the Galgovec site by the Eastern Linear Pottery and Bükk cultures were discovered in three places.⁴

North of the finds at Galgovec I site, three Neolithic features and seven Bronze Age features were uncovered in 2000, during the construction of the PEMA company.⁵ During the construction of the OPTIMA I shopping centre in 2001, 17 Bükk features were studied at the site of Červený rak.⁶ Furthermore, M. Novák uncovered six features of the Tiszadob group in the western part of the Galgovec I site.⁷ When a NAY shop was being built north of Galgovec I, an obsidian core for Bükk blades was found.⁸ Another Tiszadob settlement was investigated northwest of Galgovec I, approximately 800 m away, during the construction of the Kaufland Shopping Centre (Medzi cestami od Moldavy site) in 2002.⁹ Later, two new sites with signs of Neolithic settlement were discovered on the right bank of the Myslavský potok stream, on new building sites near the road leading to the airport.¹⁰

**Palaeolithic and Mesolithic settlements**

The prehistoric settlement of Košice is concentrated in its southeastern part along the Myslavský Potok stream. The Neolithic settlement was preceded by settlements in the Palaeolithic and Mesolithic eras. Relics of the oldest settlement, in form of chipped lithic industry and remains of tent-like Palaeolithic dwellings, were found on the right-bank terrace. They belonged to anatomically modern humans from the Upper Palaeolithic Aurignacian culture, from the period before 34,000–28,000 BC.¹¹ As these areas developed further, Gravettian hunter-gatherers from the period 28,000–20,000 BP appeared as well.¹² Chipped lithic industry, including geometrically shaped tools made of obsidian, found in the nearby site of Košice-Barca I are Mesolithic.¹³

**Advance of the Neolithic civilization**

In the Early Neolithic, the Neolithic civilization proceeded from the North Balkans to the Carpathian Basin. Around 5600–5500 BC, the Linear Pottery culture was grew out of the Starčevo culture in Transdanubia and southwestern Slovakia.¹⁴ In the southern

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⁴ KAMINSKÁ, Záchranný výskum na preložke cesty v Košiciach, 93–94.
⁵ KAMINSKÁ, Záchranné výskumy v Košiciach, 96–97.
⁶ KAMINSKÁ – NOVÁK, Šídlové nálezy bukovohorskej kultúry, 82–83.
⁷ BÉREŠ – NOVÁK, Záchranný výskum na polohe Košice-Galgovec, 35.
⁸ BÉREŠ – NOVÁK, Nález obsidiánového jadra z Košíc, 34.
⁹ HORVÁTHOVÁ, Záchranný výskum v Košiciach, 55–56.
¹⁰ P. TAJKOV, oral information. LUŠTÍKOVÁ, Záchranný výskum v Barci, 162.
¹¹ BÁNESZ, Barca bei Košice.
¹³ PROŠEK, Mesolitická obsidiánová industrie, 145–148, 193.
Tisza River basin and Transylvania, the Körös culture developed contemporaneously with the Starčevo culture. The Körös culture arrived in the central Tisza River basin in the period between 5850 and 5650 BC. The transfer of the Körös culture northwards along the Tisza River is associated with the use of obsidian resources in the Tokaj region.\(^{15}\) In further development in the territory of Alföld (the Great Hungarian Plain), the Szatmár group evolved from the late Körös culture and the Méhtelek group.\(^{16}\)

The Szatmár group also represents the initial phase of the Alföld (Eastern) Linear Pottery culture.\(^{17}\) Dating of the Szatmár group and the earliest phase of the Alföld Linear Pottery culture falls within the span of 5620–5470 BC.\(^{18}\) In Hungary, the Middle Neolithic starts with the Szatmár group.\(^{19}\)

The beginnings of the Neolithic in Eastern Slovakia are also associated with the Szatmár group. The bearers of this culture arrived in the Košická kotlina basin along the Hornád River valley,\(^{20}\) and came to the Východoslovenská nížina lowland along the Tisza and Bodrog River valleys.\(^{21}\) In Hungary, the development of the Alföld Linear Pottery culture (called the Eastern Linear Pottery culture in Eastern Slovakia)\(^{22}\) is divided into four phases, contemporary with the groups in Eastern Slovakia.\(^{23}\) The period in which the Linear Pottery culture existed in Hungary has been specified to 5600/5500–5100/5000 BC.\(^{24}\)

As they developed, individual groups of the Linear Pottery culture split into independent regional groups in Eastern Slovakia,\(^{25}\) similar to the mode of development observed in northeastern Hungary.

The Kopčany group in the Východoslovenská nížina lowland corresponds with the second stage of the Linear Pottery culture in the Košická kotlina basin (the group Barca III). The third stage is analogous with the Tiszadob group in the Košická kotlina basin and the Raškovce group in the Východoslovenská nížina lowland. The Slovak groups differed from each other in terms of pottery decoration. In the Košická kotlina basin,
engraved ornamentation was used. In the Východoslovenská nížina lowland, pottery was decorated with black paint. However, the motifs were very similar.  

Stages II and III of the Linear Pottery culture in Hungary have been dated to 5285–5056 BC and stage IV dated to 5293–5068 BC. In Hungary, the Bükk culture is considered to be the last stage IV of the Alföld Linear Pottery culture, following directly from the Tiszadob group. Between the end of the Tiszadob group and the beginning of the Bükk culture in Hungary, a transitional stage between the Tiszadob group and Bükk culture has been identified. It is characterized by a change in the proportion of pottery decorated with the Tiszadob group and Bükk culture ornamentation. Dating of the transitional stage obtained from several grave finds falls within the period between 5320 and 5030 BC. At the same time, this marks the beginning of the Bükk decorative style or the Bükk culture. In Eastern Slovakia, the Bükk culture is considered an independent culture genetically associated with the Tiszadob group and, in its initial stage, probably partly contemporary with it.

The Neolithic settlement in Košice

Settling of the Košická kotlina basin is associated with the advance of the Linear Pottery culture in the beginning of the Middle Neolithic. It is obvious from the character of the finds that the first farmers arrived in the Košická kotlina basin from northeastern Hungary along the Hornád River valley. Relics from first Neolithic farmers in the territory of Košice were concentrated on the left-bank terrace of the Myslavský potok stream, Červený rak and Galgovec sites in particular. They belonged to the Eastern Linear Pottery culture and the following Bükk culture (Figure 1). During the excavations in 1997 and 2000, they were discovered in separate features. Besides, features with various numbers of pottery from both cultures – the Tiszadob group prevailed – were uncovered. The pottery material from these features was classified in the Tiszadob-Bükk transitional stage and the typical shapes were assessed together with the Tiszadob group pottery.

The Eastern Linear Pottery culture

Development of the Eastern Linear Pottery culture is divided into several stages and groups: Proto-Linear stage, Barca III group and the Tiszadob group. The following transitional stage is on the interface of the occurring Bükk culture under influence of the Tiszadob culture.

The Proto-Linear stage


27 RACZKY – ANDERS, The internal relations. RACZKY – ANDERS, Settlement. RACZKY – ANDERS, Neolithic, 280, Figure 9.

28 KALICZ – MAKKAY, Die Linienbandkeramik, 93–110, Table 2.

29 CSENGERI, Late groups, 502.

30 CSENGERI, Settlements, 230, Tab. I. CSENGERI, Late groups, 505. RACZKY – ANDERS, Neolithic, 280.

31 CSENGERI, Settlements, 230.

The oldest finds of the Eastern Linear Pottery culture belong to the Proto-Linear pottery stage. They were studied in 1980 at the site of Košice-Červený rak. The origin of the culture with the eastern linear stage, its oldest part, is associated with influence of the Szatmár group from northeastern Hungary. Two features were investigated during the excavations in 1980: an oven and a refuse pit containing mostly sherds from several thick-walled vessels, probably storage jars. One of the storage jars has been restored. It is 108 cm tall. Its slightly conical neck is divided from the egg-shaped belly by two horizontal plastic bandes with finger indentations. The jar’s body is decorated with two rows of anthropomorphic and zoomorphic motifs made from plastic bandes with finger impressions and round bosses with finger impressions (Figure 2). The symbols of bull and man (orant) suggests the ritual relevance of bulls in the transitional period from the Körös culture to the Linear Pottery culture. In the Körös culture, people or animals – goats or sheep – were depicted. After the settlement had moved northwards, to the Great Hungarian Plain, Neolithic people arrived in areas with altered ecological conditions and were forced to switch to breeding cattle and pig. Adaptation to these new natural conditions caused changes in nutritional strategies, which were also reflected in abstract thinking. In the period of transition from the Körös culture to the Alföld Linear Pottery culture (Szatmár group), people started to fashion figurines of cattle and so-called “sacred horns”, as documented at the sites of the Szatmár group in Füzesabony-Gubakút and in Mezőkövesd-Mocsolyáš. Reliefs of bull heads and human figures decorating a storage jar of the Proto-Linear stage from the site of Košice-Červený rak have been associated, by Šiška, with the Körös culture or the Szatmár group. The settlement at Košice-Červený rak was the northernmost site of the expanding early stage of the Linear Pottery culture.

Besides pottery, lithic tools were also discovered. Most of them have been identified as blade lithic industry, chipped mainly from limnosilicates and obsidian. As for polished tools, only a small trapezoidal axe is represented. AMS dating of the Proto-Linear stage from Košice-Červený rak to 5540–5410 BC is in accordance with the dating of the Linear Pottery in Hungary and the oldest finds of pottery at the Východoslovenská nižina lowland.
Barca III group

The early stage of the Eastern Linear Pottery culture in the Košická kotlina basin was dominated by the Barca III group. Important finds have come from the following sites: Košice-Barca III, Košice-Barca-Svetlá III, Košice-Barca-Gyilkos, Košice-Šaca, as well as the wider surroundings of Blažice, Čečejovce, Valášky-Všechsštáty and Ždaňa. Barca III pottery is mainly medium-thick and thick-walled. Typical shapes include pedestalled bowls, conical and rounded bowls, spouted vessels, colanders, barrel-shaped pots and storage jars. The surface of vessels was typically decorated with wide grooves creating linear patterns, ellipses and lobular motifs, meanders and chevron tapes. Vessels with a surface coating of black paint with engraved decoration were less common. Only one dating from charcoals is available – from feature 4/79 in Čečejovce with result 6180±30 BP, 5135±54 BC, which does not correspond with its chronological classification. The Barca III group was contemporary with the Kopčany group in the Východoslovenská nížina lowland. For the Kopčany group, data from Moravany suggests 5400–5300 BC and from Zemplínske Kopčany (Bln-1785), 5401±56 BC. We assume the chronological interval for the Barca III group was identical. Comparing these sites with 14C datings from northeastern Hungary and Eastern Slovakia, the Barca III group, together with the Kopčany group, can be classified into sites dated to the period 5400–5300 BC. At the site of 1 Polgár-Ferenci-hát, the dating for corresponding connected stages of Linear Pottery II-III is also 5285–5056 BC.

Tiszadob group

The Tiszadob group is the younger and more developed stage of the Eastern Linear Pottery culture. The excavations between 1997 and 2002 revealed only a few pottery finds belonging to the Tiszadob group from Košice. A rescue excavation was carried in 1997 out during the relocation of the I/50 road from the crossroads at Červený rak to Košice-Barca. Along the route of the bypass, in the Galgovec site, three concentrations of finds in the west-east direction, designated as sites Galgovec I, II and III, were studied (Figure 1). Seventeen features were uncovered altogether; seven of them belonged to

47 ŠIŠKA, Kultúra s východnou lineárnu keramikou, 62.
48 HÁJEK, Chronológia východoslovenského neolitu, 13. HÁJEK, Nová skupina páskové keramiky, 3–9, 33–36.
49 BÁNESZ – LICHRDUS, Nové nálezy lineárné keramiky v Barci.
50 BUDINSKÝ-KRIČKA, Nálezy z prieskumu na východnom Slovensku, 65–81.
51 NOVOTNÝ, Slovensko v mladšej dobe kamennéj, 16, Table VIII: 1.
52 PÁSTOR, Blažice, Bohdanovce i Hranična, 87–95.
53 ŠIŠKA, Neolitické a halštatsko-laténske sídlisko, 204–207.
54 NOVOTNÝ, Sídliško s alföldskou lineárnou keramikou, 3–8.
55 BÉREŠ, Záchraný výskum neolitického a včasnostredovekého sídliska, 33.
56 ŠIŠKA, Kultúra s východnou lineárnu keramikou, 62–67.
57 STADLER et al. Status of the Austrian Science Fund Project.
58 NOWAK, Absolute chronology, 227.
59 ŠIŠKA, Kultúra s východnou lineárnu keramikou, 67, 125.
60 HORVÁTH – HERTELENDI, Contribution to the 14C based absolute chronology, 118.
61 RACZKY – ANDERS, Settlement history.
62 KAMINSKÁ, Záchraný výskum.
the Tiszadob group, one to the Tiszadob-Bükk transitional phase and three to the Bükk culture. Six features dated from the Bronze Age. In 2000, during the construction of the PEMA plant at the site of Galgovec I, two features from the Tiszadob-Bükk transitional stage were studied. Younger settlements on the studied territory are represented by seven features of the Bronze Age Piliny culture. For a more complex picture of the Neolithic settlement on the terraces of the Myslavský potok stream, we have added features from excavations at Košice-Galgovec and Košice-Červený rak in 2001 to the features studied in 1997 and 2000.

Dating of the Tiszadob group in Košice-Galgovec III falls within 5300–5210 and 5170–5140 BC. Dating of the Tiszadob group finds at the settlement in Šarišské Michaľany falls within the period of 5230–5016 BC. The Raškovce group in the Východoslovenská nížina lowland was contemporary with the Tiszadob group and is similarly dated to 5350/5300–5250/5150 BC.

Dating of the Hungarian sites associated with the Late Alföld Linear Pottery culture, i.e. the Tiszadob group or ALP IV, corresponds with dating of Slovak sites of the Tiszadob and Raškovce groups. The site of Mezőkövesd-Mocsolyás has been dated to 5234–5034 BC, in Polgár-Ferenci-hát, the ALP IV stage was dated to 5293–5068 BC, and at the site of Tiszaszőlős-Domaháza-puszta, it is 5200–5100 BC. Dating of the site at Polgár-Piócsási-dűlő, which contains a mixed Tiszadob-Bükk horizon, suggests 5297–5068 BC.

The demise of the Tiszadob and Raškovce groups overlaps the beginning of the Bükk culture. It is evidenced by terrain contexts as well as the analysis of finds at many sites in Slovakia and Hungary. For cases where the archaeological record contains both Tiszadob pottery and Bükk culture pottery, P. Csengeri has suggested the term “Tiszadob-Bükk transitional stage”. Dating of this transitional stage was obtained from the site of Garadna-Elkerülő út. (site 2) from grave S20: 5303 calBC–5057 calBC and grave S191: 5296 calBC–5046 calBC. Finds from Grave 22 correspond with the dating of the site to the initial stage of the Bükk culture at Sajószentpéter-Kövecses, i.e. 5214 calBC–5068 calBC. These finds could mark the beginning of the Bükk decorative

63 KAMINSKÁ, Záchranné výskumy.  
64 STADLER et al. Status of the Austrian Science Fund Project, 47.  
65 NOWAK, Absolute chronology, 227.  
66 KALICZ – KOÓS, Mezőkövesd-Mocsolyas, 87.  
67 RACZKY – ANDERS, Settlement history.  
69 NAGY et al. Evolution and environment, 277.  
71 CSENGERI, Late groups, 502.  
72 CSENGERI, Settlements, 230, Table 1.  
73 CSENGERI, A bükki kultúra.  
74 CSENGERI, Late groups, 505, Figure 3.
Graves from stage IV of the Linear Pottery culture from the site of Polgár-Ferenci-hát are similarly dated: 5320–5030 BC.\textsuperscript{76}

**Settlement features of the Tiszadob group**

The features uncovered over the studied area were divided into three groups. The first group included ground plans of two above-ground houses, one associated with the Tiszadob group (feature 2/97, Košice-Galgovec III) and the second with the Tiszadob-Bükk transitional phase (feature 1/97, Košice-Galgovec I). A large sunken feature with a hearth (feature 9/97, Košice-Galgovec III) from the Tiszadob group dominates the second group of features. Feature 8/2000, with an oven, and another large feature, 9/2000, belong to the Tiszadob-Bükk transitional phase. Other features are represented by smaller settlement pits from all three periods.

Vegetal remains in the form of both carbonized and non-carbonized seeds, cereal cymes, wild grasses and charcoals of wood have been found. In daub, imprints mainly of wood and wild-growing plants were found. Charcoals\textsuperscript{77} was mostly from oak (*Quercus* sp.) and were used for dating. The vegetal remains document the cultivation of einkorn wheat (*Triticum monococcum*) and emmer wheat (*Triticum dicoccon*). Only fragments of animal bones were preserved in the clay loam, and they have been identified as bones from cattle.\textsuperscript{78}

**Above-ground houses**

Feature 2/97 (Košice-Galgovec III) is an above-ground house of the Tiszadob group, NE-SW oriented and 3.9 x 5.6 m in size (Figure 3). Daub imprinted with 4 and 18 mm diameter stakes suggest that the feature had wattle-and-daub walls. The bottom of feature 2/97 reached 40 cm below the level of the terrain and was not specially modified. A hearth formed an important part of the feature. The fill of the feature contained a large amount of sherds from thin-walled as well as thicker pottery and lithic industry. Charcoals from oak (*Quercus* sp.) discovered in the hearth was dated by AMS \textsuperscript{14}C to 6260±35 BP, 5258±35 BC.

The second house is feature 1/97 (Košice-Galgovec I), which belongs to the Tiszadob-Bükk transitional stage. The size of the feature was 4 x 4.5 m and its bottom was sunken by 12–26 cm. Postholes were not detected in or near the feature, but its fill contained daub with imprints of stakes which might have come from its walls. There were also ceramic sherds and lithic industry remnants.

Very few houses of the Tiszadob group are known. Their above-ground features can be represented by three ground plans indicated by daub, under which there were hearths. The features were uncovered at the Peder site in the Košická kotlina basin.\textsuperscript{79}

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\textsuperscript{75} CSENGERI, Settlements, 230.

\textsuperscript{76} RACZKY – ANDERS, Neolithic enclosures, 280.


\textsuperscript{78} We would like to thank M. Nývltová Fišáková for identification.

\textsuperscript{79} LAMIOVÁ-SCHMIEDLOVÁ, Römerzeitliche Siedlungskeramik. ŠIŠKA, Kultúra s východnou lineárnou keramikou, 40–42, 161–162.
Features with hearths and ovens

Many Neolithic settlements contain features used for production or farming activities. Two features containing hearths or ovens were also studied in Košice-Galgovec.

Feature 9/97 (Košice-Galgovec III) with a hearth is associated with the Tiszadob group. It is the largest feature at the site. It was disturbed by features of the Piliny culture from the Bronze Age and by construction works. A 9.8 m long segment with maximum depth of 220 cm has been preserved. The fill of this feature, especially 10–15 cm above the bottom, comprised a layer of sherds, daub, lithic artefacts and animal bones. In the northeastern part of the feature, there was an oval-shaped hearth, 150 x 94 cm in size and 36 cm thick. Oak charcoals from the hearth has been dated by AMS 14C to 6260±35 BP, 5258±35 BC.

In 2001, feature 2/2001 of the Tiszadob group was investigated as part of a research project at the western edge of Košice-Galgovec I. It was a quadrangular pit with rounded corners, 140 x 130 cm in size and 23 cm deep. At the bottom, there was a loam layer mixed with a considerable amount of daub and charcoals. Half of the feature's ground plan was marked by daub and it strongly resembled features identified as ovens uncovered in 2001 at the site of Košice-Červený rak and associated with the Bükk culture.

Feature 8/2000 (Košice-Galgovec I), from the Tiszadob-Bükk transitional stage, was also large: 8 x 9 m. In its southern part, the deepest part extended over an area of 4.4 x 3.1 m and was 95 cm deep. The bottom and the bottom parts of walls were made up by alternating layers of red-burnt clay and charcoals. Above this, numerous sherds – mainly from thick-walled vessels – and daub with preserved imprints of twigs with diameters of 1.5–1.6 cm were situated. We assume that an oven was situated in the deepest part of the feature and the daub came from its dome. Numerous pieces of pottery, clay artefacts, daub, lithic tools and artefacts and animal bones were also found in other parts of the feature. Settlement pits with hearths belonging to the Tiszadob group were found in Ľubotice-Šarišské Lúky (previously Prešov-Šarišské Lúky). In Šarišské Michaľany, destroyed remains of an oven (feature 223) in an open area were detected, similar to feature 2 in Prešov-Sváby. A description of the destroyed remains of an oven with a dome from Kapušany was published by F. Blahuta.

Sunken features

Sunken pits are the most common features in settlements of the Tiszadob group. Sunken pits of various sizes and shapes, partly destroyed by construction works before the investigation, were also the most numerous features at the site of Košice-Galgovec I-III. They contained pottery, chipped lithic industry and daub. Features from the transitional stage include feature 9/2000 (Košice-Galgovec I): a large pit detected in
the profile of the PEMA building. It was unevenly sunken, 9 m long and had uneven bottom 1.2 m deep. The feature contained daub, pottery sherds, lithic industry, lithic artefacts, animal bones and charcoals on its bottom.

During the investigation at the site of Košice-Galgovec I in 2001, a clay exploitation pit (feature 7/2001) and a storage pit (feature 6/2001) with walls conically widening towards the bottom were discovered.\textsuperscript{87}

**Pottery of the Tiszadob group**

The investigations in 1997 and 2000 at the site of Košice-Galgovec I-III brought to light 13,545 sherds, together with several restored vessels. Among them, 7,196 sherds belong to the Tiszadob group. 5,801 sherds were classified into the Tiszadob-Bükk transitional stage; most of them have decoration typical of the Tiszadob group.

The pottery finds were classified according to type, decorative motifs and thickness of walls, the latter being defined as thin-walled pottery (1–6 mm), medium-thick pottery (6–10 mm) and thick-walled pottery (11–27 mm). The thin-walled pottery with decoration, which quickly reflected changes in styles, was important for the classification of sherds into the Tiszadob group.

The Tiszadob thin-walled pottery was made of finely washed clay with small pieces of broken sherds and mica used as a temper. The surface of the vessels was polished, even burnished. Pottery shapes with thicker walls typically had small stones and broken sherds added to the clay mass. Walls of thick-walled vessels also contained organic material, most frequently chaffs, grains, parts of cereals and weeds.\textsuperscript{88} The surface of these vessels was coarser and had lower quality finish.

The large amount of pottery suggests local production and its decoration documents highly developed aesthetics of its creators. The surface of most thin-walled vessels – but also those with medium-thick walls – was covered with finely engraved ornamentation. The number of engraved lines varied from one to seven. The engraved decoration started with rows of straight or slightly wavy lines under the vessel's rim and the same above its bottom. The space between these motifs was covered with an ornament consisting of straight, oblique, vertical, arcuate and zigzag lines or meanders (Figure 6: 6). As the amount of Bükk elements increased in the transitional stage, one increasingly finds incisions under rims of bowls instead of engraved lines (Figure 6: 5). Engraved decoration on the inner surface of bowls was rather frequent. The above-mentioned types of linear decoration are the main features of the Tiszadob group and are represented at all sites from its territory.\textsuperscript{89}

Rounded bowls with flat (Figure 4: 1) or slightly inverted mouths and flat bottoms (Figure 4: 2) were the most common type of thin-walled pottery. A suggestion of quadrangular-shaped mouths and bodies are visible on the restored bowls. The shape is sometimes emphasized by small protuberances incorporated into the decoration at the bowls' maximum diameter. Larger bowls with protuberances or perforations below mouths are independent shapes (Figure 5: 1).

\textsuperscript{87} BÉREŠ – NOVÁK, Záchraný výskum. HREHA, Neolitické nálezy z Košíc, 138.
\textsuperscript{88} HAJNALOVÁ – MIHÁLYIOVÁ, Archeobotanické nálezy, 73.
\textsuperscript{89} ŠIŠKA, Kultúra s východnou lineárnou keramikou, 84–90. PIATNIČKOVÁ, Problematic of Linear Pottery.
Analogous shapes are used for decoration of bowls from Peder in the Košická kotlina basin,\(^90\) from Kapušany in Šariš,\(^91\) from Šarišské Michaľany,\(^92\) Lubotice-Šarišské Lúky\(^93\) and Fintice.\(^94\) They are also known from the Tiszadob environment in northeastern Hungary, the sites of Tiszavasvári-Paptelekhát,\(^95\) Tiszavasvári-Józsefháza,\(^96\) Hajdúnánás-Eszlári út,\(^97\) Tiszalök-Hajnalos.\(^98\)

Conical bowls and bowls on tall, rounded (Figure 5: 2), sporadically bell-shaped pedestals or small bowls on conical pedestals (Figure 6: 7) were also frequent. The mouths of conical bowls were sometimes lugged. Similar shapes are known from Peder,\(^99\) Kapušany,\(^100\) Šarišské Michaľany\(^101\) and Lubotice-Šarišské Lúky.\(^102\)

Hemispherical bowls, S-profiled bowls, deep bowls with barbotine, cups (Figure 6: 4) and small vessels occurred less frequently. A bowl of the Tiszadob group from Kapušany has a distinct undecorated shape.\(^103\) The same applies to a small bowl from the site of Tiszalök-Hajnalos.\(^104\) In Kapušany, slightly S-profiled bowls with engraved decoration also occurred.\(^105\) Bowls with barbotine were discovered in Kapušany\(^106\) and Šarišské Michaľany,\(^107\) as well as in feature 7/2001 in Košice-Galgovec I.\(^108\) Pottery with medium-thick walls was decorated with wider and shallow grooves, creating an ornament with wider spacing. The ornamental style follows from the previous Barca III group.

Pottery shapes occurring mainly with medium-thick walls included vases with cylindrical or conical necks. Spouted vessels had identical shapes. Both vessel types were sometimes decorated with an ornament of finely engraved lines. Vase necks from Košice-Galgovec were usually shorter than in vases from Lubotice-Šarišské Lúky\(^109\) and Kapušany,\(^110\) which tended to have taller decorated necks. Spouted vessels were

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\(^90\) ŠÍŠKA, *Kultúra s východnou lineárnu keramikou*, Figure 28, Table 30: 14.
\(^92\) ŠÍŠKA, *Kultúra s východnou lineárnu keramikou*, Tables 32: 1, 3, 5–7, 10.
\(^94\) PIATNIČKOVÁ, *The Eastern Linear Pottery Culture*, Pl. 2: 2, 5; 4: 3, 4.
\(^95\) KALICZ – MAKKAY, *Die Linienbandkeramik*, Table 77: 15.
\(^96\) KALICZ – MAKKAY, *Die Linienbandkeramik*, Table 94: 11.
\(^98\) FÜZESI, *Tiszalök-Hajnalos*, Figure 2: 1.
\(^99\) ŠÍŠKA, *Kultúra s východnou lineárnu keramikou*, Table 30: 13.
\(^100\) BLAHUTA, *Bukovohorské sídlisko*, Tables XVIII: 4; XXIII: 1–3.
\(^101\) ŠÍŠKA, *Kultúra s východnou lineárnu keramikou*, Table 32: 13.
\(^102\) ŠÍŠKA, *Sídlisko z mladšej doby kamenej*, 85, Tables VI: 2, 3; X: 10.
\(^103\) BLAHUTA, *Bukovohorské sídlisko*, Table XX: 1.
\(^104\) BLAHUTA, *Bukovohorské sídlisko*, Table XXI: 2.
\(^105\) BLAHUTA, *Bukovohorské sídlisko*, Tables XXVIII: 2. BLAHUTA, *Archeologický profil*, Figure on p. 101: 3.
\(^106\) BLAHUTA, *Kultúra s východnou lineárnu keramikou*, Table 33: 6.
\(^107\) HREHA, *Neolitické nálezy z Košíc*, 138, Figure 9: 1.
\(^108\) ŠÍŠKA, *Sídlisko z mladšej doby kamenej*, Tables VIII: 19–21; IX: 26. ŠÍŠKA, *Kultúra s východnou lineárnu keramikou*, Figure 22.
also found at the latter two sites, Lúbotice-Šarišské Lúky\textsuperscript{111} and Kapušany.\textsuperscript{112} A spout with perforations\textsuperscript{113} is known from Košice-Barca I.\textsuperscript{114} Spouted vessels have also been found at the Hungarian sites of Tiszavasvári-Kereszfal,\textsuperscript{115} Polgár-Nagy Kasziba\textsuperscript{116} and Hajdúnánás-Eszlári út.\textsuperscript{117}

Specific pottery shapes which could have been used in cultic rituals include vase-shaped vessels depicting human faces, known as face-decorated vessels. Five fragments of such vessels were found in three features of the Tiszadob group in Košice-Galgovec (Figure 7). Face-decorated vessels appear in Eastern Slovakia in the Tiszadob group and continue in the Bükk culture. Similar finds have previously been discovered in Šarišské Michaľany, in settlement pits and in the Tiszadob cultural layer.\textsuperscript{118} Their design is close to the finds from Košice-Galgovec. From Šarišské Michaľany, we have 36 other sherds depicting human faces belonging to the subsequent Bükk culture settlement of the site.\textsuperscript{119} Similar items are also known from Bükk culture finds in the caves of the Slovenský kras karst – Domica\textsuperscript{120} and Ardovo.\textsuperscript{121} In Western Slovakia, we come across depictions of human faces on pottery made by the Želiezovce group,\textsuperscript{122} which was contemporaneous with the Bükk culture in Eastern Slovakia.

Depictions of faces are more frequent in northeastern Hungary in the Tiszadob group, the Bükk culture, and the contemporaneous cultures of Szilmeg and Esztár.\textsuperscript{123} Their most extensive use falls within the end of the Tiszadob group and the beginning of the Bükk culture.\textsuperscript{124} These types of vessels were found in Füzesabony-Kettőshalom, Tiszavasvári-Paptelekhát, Sájoszentpéter,\textsuperscript{125} Mezőzombor,\textsuperscript{126} Polgár-Nagy Kasziba\textsuperscript{127} and Garadna-Elkerülő út, settlement 2.\textsuperscript{128}

A fragment of a miniature altar – “a bench” with engraved white-encrusted decoration – was classified as an artefact with cultic content. A small boat-shaped vessel with engraved and white-encrusted decoration, a miniature bowl with engraved decorations and remains of black coating, and a sherd from a hanging vessel were classified as rare pottery sherds. Artefacts called “benches” are known only from the

\begin{itemize}
\item ŠIŠKA, Sídliisko z mladšej doby kamenej, 87, Table VIII: 6.
\item BLAHUTA, Bukovohorské sídlisko, Tables XXV: 10; XXVIII: 7. BLAHUTA, Archeologický profil, Figure on p. 101: 6.
\item ŠIŠKA, Kultúra s východnou lineárnu keramikou, 152, Table 31: 3, 8.
\item HÁJEK, Zur relativen Chronologie, 59–76.
\item KALICZ – MAKKAY, Die Linienbandkeramik, Tables 48: 1–3.
\item RACZKY – ANDERS, Neolithic enclosures, 275, Figure 5: 2.
\item Ibidem, 280, Figure 12: 5.
\item ŠIŠKA, Kultúra s východnou lineárnu keramikou, 107–110, Figures 39, 40.
\item HREHA – ŠIŠKA, Bukovohorská kultúra, 71, 72.
\item LICHARDUS, Studien zur Bükker Kultur, 57, Figure 17.
\item Ibidem, 58, Figure 18: 4; Tables 6: 2; 7: 1. ŠIŠKA, Kultúra s východnou lineárnu keramikou, Table 26: 10.
\item PAVÚK, Kultúry staršieho a stredného neolitu, 20–64. KUZMA, Plastika želiezovskej skupiny, 429–252.
\item KALICZ – MAKKAY, Die Linienbandkeramik, 61–64, Figure 3; 4.
\item RACZKY – ANDERS, The internal relations, 159.
\item KALICZ – MAKKAY, Die Linienbandkeramik, 61, 62, Figure 3: a, b, c.
\item KALICZ – KOÓS, Újkőkori arcos edények, Figures 1; 2.
\item RACZKY – ANDERS, Neolithic enclosures, 275, Figure 5: 1.
\item CSENGERI, Settlements, 230, Table 1.
\end{itemize}
Bükk environment in Šarišské Michaľany. A fragment of a hanging vessel from the Tiszadob group has been found on the same site.

Thick-walled pottery was represented by barrel-shaped and conical pots, plate-like pots and clay pads. Pots often had a row of perforations under their rims and various protrusions on their bodies. Storage jars were the most massive shapes. Two types of storage jars were found: i) conical storage jars with perforations under the rims and protrusions on the body (Figure 5: 3), and ii) larger storage jars with conical-shaped necks separated from the bodies by dimpled plastic tapes. Necks of storage jars were smooth or with dimpled decoration (Figure 8: 1, 2), bodies were dimpled, with barbotine or without decoration, or with more massive dimpled protrusions, or with attached short dimpled tapes of various shapes.

Clay ornaments

Together with clay vessels, clay ornaments were also found, including rings that were probably used as bracelets, pearls (Figure 6: 1–3) and discs with perforations which might have been used as pendants. Such artefacts have been found in many sites of the Tiszadob group. A clay pearl was found in Košice-Galgovec I, feature 7/2001, and has been identified as belonging to the Tiszadob group.

Lithic industry and other lithic artefacts

Chipped lithic industry, polished lithic industry and lithic artefacts including plaquettes and upper and lower grinding stones have been found in features associated with the Tiszadob group and in collections. Out of 971 examples, 581 artefacts belong to the Tiszadob chipped lithic industry and 331 artefacts belong to the Tiszadob-Bükk transitional stage. The chipped lithic tools of the Tiszadob group were made of imported stone processed in the area of the settlements. This is evidenced by the occurrence of cores (Figure 9: 13–16, 18, 19), hammerstones and a predominance of flakes. The leading raw material was limnosilicite (58.97 %), which is known to be present in the Slanské Vrchy hills (Banské and other types), i.e. it is a local raw material. Obsidian (36.23 %) from sources near the Zemplínske vrchy hills was another regional raw material used in the settlements of Košice-Galgovec.

Due to the Tiszadob group’s advance towards the Šarišské podolie hills, obsidian (65.38 %) is more common than limnosilicite (34.62 %) at the Lubotice-Šarišské Lúky site. At the Tiszadob settlement in Šarišské Michaľany, radiolarite prevails.

130 ŠIŠKA, Grabung auf der neolithischen und äneolithischen Siedlung, 440, Table II: 9. ŠIŠKA, Kultúra s východnou lineaľnou keramikou, 85, Table 32: 9.
131 BEREŠ – NOVÁK, Nález obsidiánového jadra z Košíc, 34.
132 ŠIŠKA, Sidlisko z mladšej doby kamennej, 89, Tables VIII: 12, 13.
133 ŠIŠKA, Sidlíško z mladšej doby kamennej, 89, Table VIII: 8.
134 JENČOVÁ, Sidloské kultúry s východnou lineárnou keramikou, 80, obr. 6: 9; 7: 19; 8: 6.
artefacts) over obsidian (6 artefacts). Radiolarite is a local raw material found in the Torysa River basin. Its sources are located in the klippen belt in Kamenica, Milpoš and Hanigovce. Due to weathering of siliceous rock, this mineral ends up in the Torysa riverbed and is carried southwards to the Hornád River.  

Obsidian started to prevail in the Tiszadob-Bükk transitional stage in Košice-Galgovec, while limnosilicites became the second most frequently used raw material. Other regional raw materials, such as menilithic chert, silicified sandstone and radiolarite, were used only sporadically. 

Rocks from remote areas, e.g. Volhynian flint from the Dnester River valley and Jurassic Kraków flint from the territory of Poland, are found only very occasionally. These raw materials are also rarely represented in the industry from Šarišské Michaľany. 

In the typological composition of the chipped lithic industry, blades and retouched blades prevail (Figure 9: 1–4, 6, 8–11). Other tools used in everyday activities in households, such as end-scrapers (Figure 9: 7), burins (Figure 9: 12), perforators, side-scrapers (Figure 9: 17), notches and splinter pieces, are rarely represented. Sickle blades occurred as well (Figure 9: 5). 

There was an unusually low number of polished lithic artefacts, mainly tools for wood processing. They included one damaged horseshoe adze and a fragment of a flat axe. Low numbers of polished industry items have been documented at other Tiszadob sites as well. There is a single unfinished small radiolarite axe from Šarišské Michaľany. 

Lower grindstones (Figure 10) made mostly of shale and upper grindstones provide evidence for the production of flour from cultivated cereals. Fragments of lower grinding stones have also been found at the Tiszadob settlement in Sečovská Polianka. Other lithic artefacts, namely flat grinding stones, were used for processing plant foods and grinding mineral pigments, most probably hematite, several lumps of which have been discovered.

**The Bükk culture**

The Bükk culture is a distinct Middle Neolithic culture of Eastern Slovakia and northeastern Hungary. It was spread over the original territory of the Eastern Linear Pottery culture (Východoslovenská nížina lowland, Košická kotlina basin, Šarišské podolie hills and Gemer region). It also reached Spiš and, in form of imports, penetrated the adjacent territories, mainly Central and Western Slovakia. It settled not only lowland areas, but also moved to the higher-altitude sites and caves of the Slovenský kras karst. 

The Tiszadob group, which preceded the Bükk culture, had the strongest impact on the latter culture’s origin. In Hungary, a model proposing the contemporaneity of
the Tiszadob group and the Bükk, Eszatár and Szakalhát cultures is used. In Slovakia, a subsequence of the Linear Pottery culture (Tiszadob and Raškovce groups) and the Bükk culture is used.

Finds from feature 2/97 in Košice-Galgovec I belong to the early stage of the Bükk culture. The result of dating is 6310±40–35 BP, 5300–5210 and 5285±42 BC. This dating suggests an overlap between the beginning Bükk culture and the disappearance of the Tiszadob group. Similarly dated traces of the Bükk culture have also been found in Domica cave – 5210–4850 BC and 5350–5220 BC. Dating of the Bükk culture at Šarišské Michalany is 5230–5016 BC; the date 5170±84–5016±9 BC applies to the late stage of the Bükk culture.

Dates obtained for the Bükk feature from Košice-Galgovec I are rather high, but similar to the dating of Hungarian sites from the cultural horizon of the Szakálhát-Esztár-Bükk culture, i.e. 5260–4880 BC. For a more precise explanation of the beginnings of the Bükk culture in Eastern Slovakia, more data from other sites will be necessary.

The Bükk culture settlement features

Features of the Bükk culture over the area of excavations from 1997, 2000 and 2001 are represented by sunken shapes with various functions and uses. Based on their shape and construction, some features can be identified as ovens, while others are common settlement pits whose purpose cannot be determined exactly. Together, they create an important Bükk culture settlement structure.

Remains of plants, preserved in form of carbonized and non-carbonized seeds, cereal cymes, wild-growing grasses and charcoals of plants, were found in samples of floated loam from several features. Charcoals from hearths were mainly from oak (Quercus sp.) and they were used for dating. Wood from maple (Acer sp.), beech (cf. Fagus sylvatica) and ash (Fraxinus sp.) was also used.

Vegetal remains confirmed the cultivation of einkorn wheat (Triticum monococcum), emmer wheat (Triticum dicoccon), barley (Hordeum vulgare) and peas (Pisum sativum). Fragments of animal bones indicate cattle breeding. The diet was complemented with fish, whose scales were discovered in the fill of the Bükk feature 2/97 (Košice-Galgovec I).

Ovens

Sunken features, subsequently classified as ovens, were uncovered at the site of Košice-Červený rak while monitoring works associated with the construction of OPTIMA I Shopping Centre in 2001. 17 features were studied in the southern part of the building site.
Six of them (features 10–13, 16a and 17a/2001) are considered to be kilns for firing pottery. They were rectangular, with rounded corners, approx. 150 x 70 cm in size, with bowl-shaped bottoms 30–35 cm deep. The edges of the features were lined with a 5–10 cm wide layer of terracotta-red burned clay. Their bottoms were covered with pebbles, mostly quartz, which were cracked due to firing. There was a 3–5 cm thick layer of charcoal under them. We cannot make a statement regarding the question of the chronological procedure of building the kilns, because we lack relevant dating, but it is probable that they were built in a relatively short time interval. Finds of Bükk pottery from other features in Košice-Červený rak and features from Košice-Galgovec I from 1997 and 2000 belong to the early stage of the Bükk culture. Thirteen ovens from Horné Lefantovce belonging mainly to the Želiezovce group, which was contemporary with the Bükk culture in Eastern Slovakia, represent their analogies. Sunken features with hearths and ovens were found in farming or production features associated with the Eastern Linear Pottery and Bükk cultures.

Sunken features

Settlement pit 2/97 (Košice-Galgovec I) is an important feature. It was partly damaged by earthworks. The preserved part had oval ground plan of 140 x 120 cm; its walls were convex, widening towards the flat bottom which was 65 cm deep. In the dark brown soil of the feature’s fill, there were sherds of pottery, chipped lithic industry, vegetal remains, charcoal and fish scales. Numerous large pieces of daub with imprints of stakes and chilled wood at least 10 cm wide were also discovered. AMS \(^{14}\)C dating obtained from oak is extremely important: 6310±40–35 BP, 5282±42 BC.

Remains of other two features (3/97 and 4/97 Košice-Galgovec I) were uncovered in the profile of the road, 30 cm below the topsoil. They were remains of oval pits with slightly convexly widened walls which narrowed above the flat bottom. A small number of sherds, chipped lithic industry, daub and charcoal were found in them. The third feature, 10/2000, disturbed pit 9/2000. In the profile of the PEMA construction, we uncovered a 1.25 m long part of the feature, with walls obliquely sloping towards a bowl-shaped bottom 0.85 m deep. It contained distinctly decorated pottery of the Bükk culture, daub and charcoal.

At the site of Košice-Červený rak, there were 13 (1–9, 16, 17/2001) settlement pits of the Bükk culture of various sizes, mostly only shallowly sunken.

Pottery of the Bükk culture

At the site, we studied four Bükk culture features concentrated at the site of Košice-Galgovec I in which 584 pottery artefacts were found. Sherds with decorative motifs of the Bükk culture also occurred, though in smaller numbers, in features from the Tiszadob-Bükk transitional stage.

153 KAMINSKÁ – NOVÁK, Sídlistové nálezy bukovohorskej kultúry, 83.
154 KAMINSKÁ, Košice-Galgovec.
156 HAJNALOVÁ, Výskumná správa archeobotanické č. VS 13937/98. HAJNALOVÁ – MIHÁLYIOVÁ, Archeobotanické nálezy v roku 2000, 73.
157 STADLER et al. Status of the Austrian Science Fund Project.
Bükk pottery included thin-walled, medium-thick and thick-walled vessels. In terms of design, they are similar to Tiszadob group vessels. The clay used for their production contains mineral temper and broken sherds. The surface of the vessels is burnished. In the case of one partly restored bowl (Figure 11: 3), it was coated with red-brown clay smear. Pottery shapes are less variable. Among the finds of thin-walled pottery, bowls were prevalent – usually rounded, less frequently hemispherical. There were also conical bowls and conical pedestalled bowls. Conical bowls in Bükk pottery material are known from Zemplínske Kopčany158 and Ražňany.159 Pedestalled bowls occurred in Kašov160 and also in Hungary at the Sajószentpéter-Kővecses site.161

Vases and beakers/cups were less frequent. Most sherds came from conical or barrel-shaped pots. There were also sherds from storage jars. More rarely, clay pads were found.

Rows of incisions were situated below the rims of bowls and on the body, complemented with ornaments composed of arcuate or zigzag lines (Figure 11). Other decorations included engraved lines, hatched triangles, spirals, incisions, dimples, plastic protrusions, plastic dimpled tapes and perforations under the rim. These decorative motifs occur on the Bükk pottery from Šarišské Lúky,162 Zemplínske Kopčany,163 Čierne Pole,164 Šarišské Michaľany165 and Ardovo cave,166 and can be described as typical decoration of the pre-classical stage of the Bükk culture.167 These motifs are also represented at the early Bükk culture sites at Sajószentpéter-Kővecses168 and Tiszavasvári-Paptelekhát.169

The vessels do not have burnished surfaces, and the negative ornament typical of the Bükk culture in its classical stage was not used to decorate them. Angular arcuate lines, known as gothic windows, did not occur either. Based on the character of its decoration, this pottery represents the beginning of the Bükk culture.

Decorative clay artefacts were represented by a single pearl.

**Lithic industry and other lithic artefacts**

Eighty-eight chipped lithic industry and four other lithic artefacts – 92 partly published lithic artefacts altogether – have been found in Bükk culture features.170

In terms of the raw material composition of the chipped lithic industry, obsidian strongly prevails (84.10 %) over limnosilicites (15.90 %). Only one core was discovered; flakes made up almost half of all finds; more than 20% were blades and 28% were

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160 ŠIŠKA, *Keramika a datovanie neolitické dielne v Kašove*, 70, Figure 2: 10.
161 CSENGERI, *A bükk kultúra*, 31–46, Figure 5: 3.
162 ŠIŠKA, *Sidílisko z mladšej doby kamenej*, 90, Table XII: 7.
163 ŠIŠKA, *Die Bükker Kultur*, 264, Figure 17: 1.
164 Ibidem, Tables II: 4, 23, 26; III: 5; V: 4, 5.
166 LICHIARDUS, *Studien zur Bücker Kultur*, Figure 27: 4.
167 ŠIŠKA, *Die Bükker Kultur*, 264.
168 CSENGERI, *A bükk kultúra*, Figure 5: 7.
tools. Among the tools, retouched blades, sickle blades, retouched flakes and a splinter piece were identified.

Other lithic artefacts included one example each of a plaquette, a pad, an upper grindstone and an artefact from a drilled hole of a lithic tool. The situation at the Bükk culture settlement in Šarišské Michaľany is different: polished artefacts were produced there.171

**Conclusion**

According to our current knowledge, settlement of the microregion in the southern part of Košice started at the beginning of the Middle Neolithic with the advance of bearers of the Szatmár culture from northeastern part of Hungary northwards along the Hornád River basin. As a result, the oldest – Proto-Linear – stage of the Eastern Linear Pottery culture was created at the site of Košice-Červený rak on the left-bank terrace of the Myslavský potok stream, dated to 5540–5410 calBC. In the stage of the Eastern Linear Pottery culture that followed – represented by the Barca III group – development of independent regional groups in the Košická kotlina basin started. Barca III group settlements have been detected over a wider area, mainly in the residential area of Košice-Barca. Known sites include the eponymous settlement of Košice-Barca III, on the right-bank terrace of the Myslavský potok stream, as well as Košice-Barca-Svetlá III, Košice-Barca-Gyilkos and Košice-Šaca. In the wider surroundings, there are sites at Čečejovce, Valaliky-Všechny, Ždaňa and Blažice. The later stage of the Eastern Linear Pottery culture, the Tiszadob group, is characterised by stabilized settlement on the terraces of the Myslavský potok stream at the sites of Košice-Galgovec I–III and Košice-Červený rak, as well as sites further afield. Small settlements probably consisted of several above-ground houses with farming features and adjacent fields and pastures. Their inhabitants cultivated cereals and bred cattle, and manufactured household goods, including the production of pottery and lithic tools. The timescale of Tiszadob group settlements falls within the period 5300–5140 calBC.

Tiszadob group settlements in the southern part of the Košická kotlina basin spread northwards and westwards. They moved to the territories of Šariš and Gemer, where they also arrived in the caves of the Slovenský kras karst. Tiszadob group sites have also been documented on the periphery of the Východoslovenská nižina lowland and in the region of Horný Zemplín.

The Tiszadob group greatly influenced the emergence of the Bükk culture, with which it was – as suggested by dating – partly contemporary. The Bükk culture feature in Košice-Galgovec I is dated to 5300–5210±42 calBC. With the Bükk culture, Neolithic development in the Košická kotlina basin and the whole area of Eastern Slovakia ended. In the following period, the Late Neolithic, the previously intense settlement of the Košice microregion was interrupted. Distinct resettlement of the region is associated with the cultures of the Eneolithic.

Translated by Mgr. Viera Tejbusová

171 KACZANOWSKA – KOZŁOWSKI – ŠIŠKA, Neolithic and Eneolithic chipped stone industries, 114.
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Figures

Figure 1: Map of the southern part of Košice with the years of excavations on the terraces of the Myslavský potok stream
Figure 2: Košice-Červený rak. Storage jar with anthropomorphic and zoomorphic motifs, Proto-Linear stage (after KAMINSKÁ – KACZANOWSKA – KOZŁOWSKI, Košice-Červený rak, and NAGY et al. Evolution and environment.)
Figure 3: Košice-Galgovec III, feature 2/97, Tiszadob group. 1 – photo of the feature with a hearth and features 5/97 and 6/97 nearby; 2 – groundplan and profile of the feature.
Figure 4: Košice-Galgovec III, feature 9/97, Tiszadob group. 1, 2 – rounded bowls with engraved decoration
Figure 5: Košice-Galgovec III, feature 9/97, Tiszadob group. 1 – fragment of a bowl; 2 – pedestalled bowl with engraved decoration; 3 – restored storage jar
Figure 6: Košice-Galgovec III, feature 9/97, Tiszadob group. 1, 3 – clay pearls; 4 – cup; 5 – fragment of a bowl with engraved concentric circles; 6 – fragment of a bowl decorated with engraved meanders; 7 – small pedestalled bowl
Figure 7: Košice-Galgovec III, feature 9/97, Tiszadob group. Sherd from the neck of a vase-shaped vessel with a depiction of a human face
Figure 8: Košice-Galgovec I, feature 8/2000, Tiszadob-Bükk transitional stage. 1, 2 – sherds from storage jars with conical-shaped necks decorated with dimples, dimpled plastic tapes and barbotine
Figure 9: Košice-Galgovec III, feature 9/97, Tiszadob group. Chipped lithic industry. 1 – retouched blade, 2–4, 6, 8, 9, 11 – blades, 5 – sickle blade, 7 – end-scraper, 12 – burin, 17 – side-scraper, 13–16, 18, 19 – cores. Raw material: 1, 7–9 – obsidian, 2–5, 10, 11, 14–19 – limnosilicite of the Banské type, 6, 13 – limnosilicite
Figure 10: Košice-Galgovec III, feature 9/97, Tiszadob group. Lower grinding stone – granite
Figure 11: Košice-Galgovec I, feature 10/2000, Bükk culture. 1–3 – decorated hemispherical bowls