REAL BURIALS OR CENOTAPHS? A STUDY OF THE MYSTERIOUS UNDER-MOUND FUNERARY CONSTRUCTIONS OF THE TRZCINIEC CULTURAL CIRCLE

This article presents a recently recognized type of Trzciniec Cultural Circle (TCC) funerary structure, which over the last decade has been excavated in the cemeteries of Bukivna, Nieciecz Włościańska, and has also been identified during the study of archival material from Komariv. These constructions are characterized by the placement of stones in the corners and along the sides of a rectangular plan. Due to the lack of skeletal remains, these structures are sometimes interpreted as symbolic graves (cenotaphs). Based on multidisciplinary methods, including radiocarbon, geochemical and geological analyzes, excavation, as well as study of archival documentation, the authors can state these features occurred in different enclaves of the TCC and were an important component of the funeral rite during the classical stage of the development of this cultural formation. Their form, structure, location, and inventory also indicate that these unique features probably played an important and universal role in the varied and multidimensional TCC funeral ceremonies.

Keywords: funeral rite, under-barrow architecture, funeral construction, Trzciniec Cultural Circle, barrows.

Introduction. The Middle Bronze Age Trzciniec Cultural Circle (TCC) (Makarowicz 2010a, fig. 1) barrows, which are monuments that form their own landscapes and are usually highly visible in the field, hide various under-mound features, the function of which is not limited to the funeral sphere. Sepulchral structures inside the barrows are frequently discovered in different enclaves of this cultural formation (among others Sulimirski 1968; Berezanskaia 1972; Kempisty 1978; Artemenko 1987; Gorski 1996; 2010; Taras, Florek 2003, p. 63—69; Makarowicz 2010a, p. 228—242; 2019), and in recent years have been more broadly interpreted (e.g. Taras, Florek 2003, p. 63—69; Makarowicz 2010a, p. 382—383; 2019; Gorski 2010; Piotrowska 2012; Niculică, Boghian 2015).

In this article, the authors consider a specific type of funeral construction sometimes interpreted as a cenotaph (symbolic grave) in which human remains are typically not documented. These constructions occur mainly in the southeast enclave of the TCC, within the Komarów Culture (KC) territory (Sulimirski 1968; Makarowicz, Lysenko, Kockin 2013a, 2013b; Makarowicz et al. 2016a; Lysenko et al. 2015). Data from the recent excavation in Bukivna (Makarowicz, Lysenko, Kockin 2013a; 2013b; 2020; Lysenko et al. 2015), analysis and reinterpretation of archival information from the eponymic cemetery in Komariv (Romaniszyn 2018), and results from research in the South Podlasie of northeast Poland (Kielbasińska et al. 2012) allow a comprehensive examination of this type of funeral structure. The goal of this article is to address the question of the role these under-barrow features played in ritual activity of the TCC societies. Were they, in fact, cenotaphs or perhaps real burials? Furthermore, the authors will present a discussion of the chronology of these constructions, and their importance and symbolism within TCC communities.

It is worth mentioning that these so-called cenotaphs are difficult to record during excavation. These funerary structures are relatively ‘architecturally fragile and slight’ and they do not manifest themselves in the field as, for example, wooden, stone-wooden, or stone mortuary houses, which are known from the most important Trzciniec cemeteries (e.g. Florek, Taras 2003, p. 63—69; Makarowicz 2010a, p. 282—283; 2019). Therefore, it seems that the frequency of this sepulchral structure is strongly understated.
in the current literature. This article is the first attempt to interpret the described construction, which also reflects the various and complex funeral rites of the TCC societies.

**Database presentation.** The problem of the discussed feature type in TCC barrows has not been taken into account in the subject literature. The authors focused on specific features that are similar in form and building material, because they duplicate and repeat a particular architectural scheme. This refers specifically to constructions consisting of single stones arranged on a quadrilateral plan. These stones are usually situated in the corners, in the middle of the sides, or along the walls of the constructions, creating unique structures containing a small space inside. Eight features of this type have been documented presently in the TCC, most from well recognized contexts. Four come from Bukivna, upper Dniester river basin, and were registered during excavations by the Polish-Ukrainian archaeological expedition (Makarowicz, Lysenko, Kočkin 2013a; 2013b; (eds.) 2021; Lysenko et al. 2015). Three similar constructions were discovered during research in Komarów prior to World War II in what was then Eastern Galicia (Sulimirski 1936; 1939; 1964; 1968), and one of these features in Nieciecz Włościańska (Southern Podlasie) was explored during recent investment research (Kiełbasińska et al. 2012). Additionally, after analysing plans and descriptions from archival research, it can be concluded that the frequency of the discussed features was likely much higher; however, they have been partially destroyed or inappropriately explored.

**Bukivna cemetery.** The necropolis in Bukivna is spatially the largest cemetery of the KC and covers an area of several square kilometres. Together with the neighbouring cemetery in Miłovany, this necropolis consists of a dozen barrow concentrations with a total of over 150 mounds located on exposed landforms and creating both linear and group alignments (Makarowicz et al. 2016a; 2016b; 2016c; 2018; 2019; (eds.) 2021). The cemetery was explored pre-World War II, in 1931 and 1938 (Bryk 1932; Śmieszko 1937; Siwkówna 1938; Rogożiska 1959), and also during the recent Polish-Ukrainian research project from 2010 to 2014 (Makarowicz, Lysenko, Kočkin 2013a; 2013b; 2020; Lysenko et al. 2015). During the latter, six barrows were excavated, three of which revealed four features that are preliminary interpreted as «cenotaphs».

---

1. The project was funded by the National Science Centre of Poland, grant no. 2011/03/B/HS3/00839 «Bukivna. An elite Komarów culture cemetery by the Dniester River», which was undertaken from 2011 to 2015 by scholars from Adam Mickiewicz University in Poznań, the National Academy of Sciences of Ukraine in Kiev, and Vasyl Stephanyk Precarpathian University in Ivano-Frankivsk.  

Barrow 1/I/2010 — Feature 3. This feature was located in the central-west sector of Barrow 1/I/2010. It was rectangular in shape with dimensions of 1.7 × 0.9 m, the contours of which were marked by ten stones arranged in two parallel rows oriented NNW—SSE (fig. 1). Moreover, one stone was situated to the northeast, which lengthens the potential wall of this feature. In turn, the southwestern corner of this construction was strengthened by two additional stones, which created a kind of «vestibule». The whole construction was situated between 1.43 and 1.61 m beneath the top of the barrow. Stones used to build this construction were erratic with dimensions of 18—25 × 15—23 × 5—10 cm. They were placed directly within a clay layer. Some burnt oak wooden piles were documented to the east and west of the northern part of this construction. Their dimensions were between 0.9 and 0.5 m in length, 10.0 to 12.0 cm in width, and 1.5 to 3.0 cm in thickness. No human bones were found inside the described feature; only archaeological material was present. Three vessels (a completely preserved pot, a vase, and fragments of another pot) were discovered in the northern part of the construction. Another two containers (a bowl and cup) were excavated from the vicinity of the southeast corner. What is more the deposit also included a rhomboidal-head pin, the remains of a bronze pendant, a flint arrowhead, and a sickle, and another three vessels (a vase, bowl and cup) were found 1.5 m northeast of the described feature (Makarowicz, Lysenko, Kočkin 2013a, p. 160—162; 2013b, p. 104—107; (eds.) 2021; Lysenko 2015, p. 59—63). Geochemical analysis also revealed increased proportions of phosphorus in this area of the feature (Hildebrandt-Radke, Szychalski 2021).

Barrow 7/I/2014 — Feature 6. The feature was located in the southeast sector of Barrow 7/I/2014, at a depth of between 1.81 and 1.90 m from the top of the mound. It was built from six stones arrange in a rectangular plan oriented NE—SW (fig. 2). The size of the stones ranged from 16 × 10 to 23 × 17 cm. The construction dimensions were 1.7 × 0.7 — 0.97 m. The fill of the feature did not differ from the surrounding vicinity and no osteological material was documented inside. One vessel (a vase) was found in the northwest part of this construction. In turn, one mug which lay upside down was excavated from the northwest corner. It appears that this vessel «marked» the corner of this structure, and perhaps was used instead of a stone. An additional two vessels (a pot and amphorae, originally one placed within the other) were excavated in the vicinity of the southwest corner stone.

Barrow 7/I/2014 — Feature 7. The discussed structure was documented in the northwest sector of Barrow 7/I/2014, at a depth of 1.75 to 1.81 m from the top of the mound. This feature, nearly oval in shape, was oriented NW—SE with  

ISSN 2227-4952 (Print), ISSN 2708-6143 (Online). Археологія і історія України. 2021, вип. 2 (39) 361
dimensions of $3 \times 1.92$ m, and eight stones were situated in a rectangular plan in its interior (fig. 2). The feature fill was «pan-shape» in profile and consist of two layers. The external one consisted of brown soil with admixture of clay and fragmented charcoal in some places. The internal layer (with dimensions of $2.43 \times 1.18 \times 0.25$ m) consisted of black-brown and dark-grey soil with some tiny pieces of charcoal and a small fraction of clay. The stone construction inside with dimensions of $1.38 \times 0.96$ m was situated parallel to the described layers. Additionally, a small stone was found that extended the northern wall. Another stone was excavated around $0.20$ m to the southwest of the southwestern wall. Four vessels were documented in the Feature 7 context. Three (a vase, cup, and pot) were excavated from the south-east part of the construction. The first was on its side at a distance of $0.5$ m to the southeast of the southeastern cornerstone. Slightly closer (around $0.15$ m) to the same cornerstone, a cup was found, inside of which was a small pot. Moreover, a bowl lying on its side was deposited in the northwest sector of the described construction. Many charcoal concentrations were observed in the north and northwest parts of this feature. Additionally, several flint tools and small pieces of pottery were documented within the Feature 7 outline, but again no human remains were found.

Barrow 2/1/2010/2012 — Feature 1. Feature 1 from Barrow 2/1/2010/2012 may be another example of the discussed type of funeral structure. This construction was discovered in the central part of the barrow. However, it must be emphasized that the structure was almost completely destroyed by a modern looter’s trench, which damaged a substantial part of this mound, especially the central sectors. Due to this, only the eastern section of this construction was preserved (fig. 3). Perhaps two stones with dimensions of $23 \times 20 \times 12$ and $24 \times 15 \times 8$ cm marked the eastern brink of the structure. The distances between the stones that comprise this construction oscillate around $0.7$ m, and a fragment of burnt wood with dimensions of $7 \times 5 \times 1$ cm, probably the remains of a pile, was observed $0.3$ m to southeast. No osteological material was found in the context of this feature. The equipment of this structure included three vessels. The first (a vase) stood on the southernmost stone. Less than a metre from the vase, the lower part of a S-shaped pot was found. Finally,
a highly fragmented vessel was noticed around 1 m from the southern edge of the feature. Additionally, the upper part of a nail-headed pin was documented between the mentioned vase and pot. However, it seems like a large part of the feature inventory was stolen by looters.

**Komariv cemetery.** The cemetery in Komariv (former Komarów) is a part of a larger barrow complex that also includes necropolises in Krylos, Viktoriv, and Medynya. This necropolis is located on the watershed between the Lukva and Limnitsa rivers. As at Bukivna, barrows here create a series of linear and group-linear concentrations, stretching along the highest parts of the terrain (see Makarowicz et al. 2016a; 2016b; 2016c; 2019). The cemetery was explored at the end of 19th century (Ziemięcki 1887); however, the greatest intensification of fieldwork took place from 1934 to 1936 during the wide ranging excavations conducted by Tadeusz Sulimirski and Józef
Grabowski (Sulimirski 1936; 1939; 1964; 1968, p. 105—119). In total, over 60 barrows were excavated and assigned to the Corded Ware Culture (CWC) and also to the KC.

It appears that three features (two from Barrow 34 and one from Barrow 45) can be considered as the type of under-barrow mortuary architecture discussed in this article. It should also be assumed that pre-war excavation methodologies did not always permit the observation of rectangular features and probably their frequency was higher at this site. Relics of the excavated barrows in the form of “cutting cones” observed during a recent field-walking surveys (Makarowicz 2016a) also suggest that some of the under-barrow architecture located in side sectors of these barrows may have gone undocumented.

Barrow 34 — Feature A. The central part of the described barrow was destroyed by a second (chronologically subsequent) cremated burial. Around 0.70 m beneath this structure, the original grave feature was found. It was built from six stones (in the excavators’ opinions, they were “halved”) with dimensions from 20 to 60 cm and they marked a rectangular area of 1.5 m² (fig. 4: A). This structure was oriented NW—SE and no skeletal material was observed in this context. Three crushed vessels (a bowl, cup, and mug) were deposited in a row along the eastern wall. Another container (possibly a pot with a folded edge) lay around 1 m to the east of the other vessels. Additionally, a flint arrowhead was found in the northeast corner of the construction. Three pits filled with charcoal were also observed within the feature outline (Sulimirski 1968, p. 111f, plan 19: 2).

Barrow 34 — Feature B. In the northeast sector of the same barrow, another feature of the type we are interested in was found around 2 m to the northwest of Feature A (fig. 4: A). This construction was built from stones arranged in three rows which formed a rectangular shape of 2 m². The feature recalls examples from barrows at Bukivna; however, after analysing the documentation, it can be concluded that two such structures were built next to each other. A shallow hole with containing three vessels (a cup, mug, and bowl) was observed by the western wall of this feature. As in Feature A, no skeleton traces were found inside Feature B (Sulimirski 1968, p. 111—112; plan 19: 2). It should be mention that analogically to Barrow 7/I/2014 in Bukivna, two features of the discussed type of funeral architecture were documented under the mound of one barrow.

Barrow 45 — Feature 1. This feature was located 1.5 m to northwest of the central point of Barrow 45. It was built from 11 stones arranged in three rows (fig. 4: B). The structure had dimensions of 5.5 × 3 m and was oriented SW—NE. In the opinion of the excavators, the described construction likely included more stones that were removed as a result of agricultural activity. When analysing the preserved arrangement of stones, it can be

Fig. 3. Feature 1 from Barrow 2/I/2010/2012 in Bukivna
assumed that they originally formed two, adjacent, rectangular structures. Importantly, calcined human bones and charcoal fragments were identified inside the southwest sector of the construction, although osteological material was not observed in the northeast part of this feature. Ten vessels were
documented within the context of the construction. Similar to the latter examples, all were placed along the walls of the structure. Specifically, four vessels (two pots and two bowls) were deposited next to the northwest wall, one (a bowl) by the north wall, and four (three bowls and a handled mug) by the southeast wall (Sulimirski 1968, p. 114; plan 24: 2).

Nieciecz Włościańska Barrow — Grave 2. The last example of a funerary construction of the type discussed here, is a structure from the barrow in Nieciecz Włościańska (fig. 5). In contrast to the examples presented above, which are located on the belt of the southern highlands, this barrow is located in the northeast area of the TCC, in South Podlasie. One barrow located on a sandy hill above the Cetynia River Valley was excavated during investment research conducted in 2012 (Kielbasińska et al. 2012).

In the northeast sector of this barrow a rectangular feature designated «Grave 2» was found. Its contours were formed by six stones arranged in the corners and in the middle of the longer sides of the feature. This structure was oriented NE—SW. No osteological material was found inside the feature; however, the excavators observed traces of discoloration or «washed hummus», which in their opinion indicated the presence of a deceased whose remains did not preserved due to unfa-
vourable soil conditions. Basing on field observations, they stated that the individual in Grave 2 was buried in a crouched position on his left side with hands folded near his face and the head to the NE. Also, within the context of this feature, a bronze spearhead, nail-head pin, and two spiral bracelets were excavated. Additionally, numerous fragments of a vessel (pot) were documented in the vicinity of the potential deceased’s head (Kielbasiańska et al. 2012, p. 5—7).

Chronology. The pottery from the described features generally represents the classic stage of the TCC development, both in the western area (Nieciecz Włościańska), as well as the southeast part occupied by the KC societies (Bukivna). To increase the precision of the absolute chronology of the analysed constructions, five $^{14}$C dates from features at both sites were calibrated (table).

After calibration, the chronological ranges suggest that the discussed feature are associated with the earliest, or classic horizon of TCC development in the highland area of its range. The absolute dates point to the 18th to 16th centuries BC as the most probable periods during which this type of under-mound construction was in use (table; fig. 6). Generally, this is also confirmed by the sum of the probability distributions of the obtained $^{14}$C values (fig. 7).

<table>
<thead>
<tr>
<th>No.</th>
<th>Barrow</th>
<th>Feature</th>
<th>Conv BP</th>
<th>Cal BC (68.3 %)</th>
<th>Cal BC (95.4 %)</th>
<th>Lab no.</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nieciecz Włościańska</td>
<td>30</td>
<td>2</td>
<td>3430 ± 40</td>
<td>1869—1849 (9.2)</td>
<td>1772—1676 (53.6)</td>
<td>1654—1641 (5.4)</td>
</tr>
<tr>
<td>2</td>
<td>Bukivna</td>
<td>7/1/2014</td>
<td>7</td>
<td>3425 ± 30</td>
<td>1863—1855 (4.0)</td>
<td>1767—1683 (59.3)</td>
<td>1653—1643 (5.0)</td>
</tr>
<tr>
<td>3</td>
<td>Bukivna</td>
<td>7/1/2014</td>
<td>6</td>
<td>3390 ± 35</td>
<td>1736—1716 (14.9)</td>
<td>1693—1626 (53.4)</td>
<td>1581—1544 (4.3)</td>
</tr>
<tr>
<td>4</td>
<td>Nieciecz Włościańska</td>
<td>30</td>
<td>2</td>
<td>3340 ± 35</td>
<td>1669—1656 (6.7)</td>
<td>1635—1540 (61.5)</td>
<td>1692—1518 (90.5)</td>
</tr>
<tr>
<td>5</td>
<td>Bukivna</td>
<td>1/1/2010</td>
<td>3</td>
<td>3305 ± 30</td>
<td>1612—1534 (68.3)</td>
<td>1665—1659 (0.6)</td>
<td>1631—1502 (94.9)</td>
</tr>
</tbody>
</table>

Fig. 6. Radiocarbon dates from Feature 3 — Barrow 1/1/2010, Features 6 and 7 — Barrow 7/1/2014 — Bukivna, Grave 2 — Nieciecz Włościańska

<table>
<thead>
<tr>
<th>Feature</th>
<th>Lab no.</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poz-57704</td>
<td>Wood</td>
<td></td>
</tr>
<tr>
<td>Poz-69118</td>
<td>Charcoal</td>
<td></td>
</tr>
<tr>
<td>Poz-69117</td>
<td>Charcoal</td>
<td></td>
</tr>
<tr>
<td>Poz-57705</td>
<td>Wood</td>
<td></td>
</tr>
<tr>
<td>Poz-88820</td>
<td>Charcoal</td>
<td></td>
</tr>
</tbody>
</table>

Fig. 7. Sum of probability distribution of radiocarbon dates discussed in the paper
The role of rectangular structures in the funeral practices of TCC societies. Discussion and interpretation. «Trzciniec» funeral rites are characterized by their great variety, complexity, and dynamics of change. Interregional similarities and differences in ritual behaviours are registered in TCC necropolises. Not only burials, but other features with different roles, probably symbolic or ritual, are documented under the mounds of this cultural formation (Górski 2010; Makarowicz 2010, p. 201; Piotrowska 2012, p. 86). These types of funeral structures also include a broad spectrum of constructions that have been registered inside barrows (Makarowicz 2010a, p. 228—242; Górski 2010). Described symbolic structures have various architectural forms (Florek, Taras 2003, p. 63—69; Górski 2010; 2017; Makarowicz 2010a, p. 228—242; Niculică, Boghian 2015). Specifically, within this wide range of stone and wooden-stone constructions, the following forms can be distinguished: stone boxes (cists), pseudo-cists (stone constructions similar to cists), stone rings, pavements, as well as wooden platforms, coffins, and mortuary houses based on differential architectural plans (Florek, Taras 2003, p. 63—69; Makarowicz 2010a, p. 231—242; 2019; Niculică, Boghian 2015, p. 82). It should be mentioned here that parts of the TCC are distinguished by specific funeral architecture. For example, the Bialy Potok group (BPG) of the Western Podolia area is characterised by flat inhumated graves tightly cased within stone constructions (Kostrzewski 1928; Romaniszyn, Makarowicz 2018). Also, the area between the Prut and Dniester rivers, covering the current area of Romania and the Republic of Moldova, is rich in stone construction (Shovkoplyas 1952; Dergačev 1986; Boghian, Niculică, Budui 2012; Niculică, Boghian 2015). Nevertheless, the rectangular structures delineated by stones discussed in this article have not received much attention to date in the literature.

The features of interest to us were discovered mostly in the Komarów version of the TCC, in the upper Dniester area. Only one construction was explored in the northern (lowland) extent of the TCC. However, it should be emphasized once again that the features described in this article have architectural layouts that are subtle and difficult to register during excavation. This is confirmed by the documentation record. Among the eight structures known to date, six were explored in the last decade, that is during the period when archaeological technique and tools to record documentation have improved significantly. For example, of the five KC barrows in Bukivna, the described features were observed under as many as three mounds (Makarowicz et al. eds.) 2021).

Hitherto, all known rectangular features delineated by stones were discovered beneath mounds, and most were located on the ancient soil level. In addition to these features, structures of differing types were also registered in the same barrows. For example, in Bukivna two separate barrows — Barrow 6/I/2014 measuring 11.5 × 10 × 1.45 m (length × width × height) and Barrow 7/I/2014 measuring 11.5 × 10 × 1.6 m — were in such close proximity that they created the impression of one longitudinal barrow. Ten features were distinguished during the excavation of these barrows (Makarowicz et al. 2020). In addition to the rectangular constructions described above, clay-wooden mortuary houses (more Makarowicz 2019), ritual deposits of vessels, and fragments of smaller wooden constructions were also recorded. In Barrow 1/I/2010 from this site, five other features were found in addition to a potential cenotaph. There were the remains of two burnt wooden platforms, a stone pavement, and relics of another clay construction (Makarowicz, Lysenko, Kočkin 2013a, p. 160—162; 2013b, p. 104—107; 2020; Lysenko et al. 2015, p. 59—63). In the Nieciecz Włościańska barrow, in addition to Grave 2 discussed above, Grave 1 was also documented. It was a construction built of around 100 irregularly shaped stones located in the central part of the barrow. The diameter of this construction was nearly 5 m and contained a clearly separated space in which the deceased had been buried (Kiełbasińska et al. 2012, p. 5—7). Undoubtedly, constructions accompanying the deceased features were also registered in Barrows 34 and 45 from Komariv. However, brief reports from this excavation, which for example describe some ritual features as an «area with scattered lumps of charcoal», prevent the exact recognition of these construction types (Sulimirski 1968, p. 114, plan 23).

Another common trait of the discussed features was traces of fire activity in the barrow where they were located. One of the TCC under-mound funeral rites was in situ cremation or burning the grave construction with the deceased inside (Makarowicz 2008; 2010a, p. 243; 2019; Romaniszyn 2015, p. 39; 2018; Górski 2017; see Górski et al. 2017). Following the latest interpretations, cremation within the borders of TCC barrows derived from the post-Globular Amphorae culture tradition or from the Carpathian Basin cultures. It cannot be ruled out that this pattern could also have been connected to the middle Dnieper area, where numerous cases of this type were confirmed. Therefore, it is assumed that the tradition of cremating the deceased inside the under-mound constructions has various and omni-directional origins (more Makarowicz 2010a, p. 384—385). In the context of the features of interest in this paper, the practice of burning has a direct impact on the ability to recognize their function. The activity of ritual fire was one of the reasons that some of the construction elements were completely destroyed. Therefore, it cannot be clearly stated that the stones dug into the ancient surface of the rectangular features discussed here were the only
components of the funeral construction or wheth-
er they served as a base for a larger over-ground
structure. At this point it is necessary to men-
tion Feature 3 from Barrow 1/I/2010 in Bukivna
where the remains of burnt oak piles were found
to the east and west of the extreme vertices of the
described feature (Makarowicz, Lysenko, Kočkin
2013b, p. 104—105). Thus, a scenario assuming
preserved stones on a rectangular plan were a relic
(a foundation?) of a larger construction cannot be ruled out. There are examples of this
type of TCC monumental funeral structure from
Dwikozy and Dacharzów (Ścibior, Ścibior 1990;
Flórek, Taras 2003), although in both cases they
were significantly larger structures — mortuary
houses.

It is also difficult to clearly define the role that
these stone-lined rectangular features played in
the religious life of the builders. Analogically to
other under-mound structures, it can be assumed
they perform a ritual and symbolic function.
Their morphologic specifications, such as their
rectangular form, dimensions, borders outlined
by stones, and the accompanying inventory sug-
gests that they were a place where a deceased was
buried. However, among the eight such construc-
tions discovered to date, only one contained hu-
man remains (Komariv, Barrow 45), while traces
of a skeleton on the ancient soil was observed in
Nieciesz Włościańska. At this point, we pose the
question: are the discussed features real burials
or if this is a result of geochemical processes
concerns, weathering, and micro-organisms activity
of such constructions was likely connected
processes are extremely various and require fur-
ther studies (more Stiner et al. 1995; Nicholson

Fire activity also affects the preservation of
human bones inside the barrow constructions.
Bones subjected to continuous heating lose their
properties and bulk, which is caused by loss of
water and organic matter including their main
component — collagen (Kalsbeek, Richter 2006,
p. 125). Observation of bone cremation indicates
that the highest loss of bone weight and organic
material occurs in the beginning phase of burn-
ing at temperatures of between 200 and 500 °C
(Grupe, Hummel 1991, p. 180; Karlsbeek, Rich-
ter 2006, p. 127). The analyse of burnt osteologi-
cal material from Bukivna revealed that when
features containing individuals were burned, the
temperature oscillated between 600 and 900 °C,
sometimes reaching between 1000 and 1200 °C
(Slobodian, Szczepanek 2021). Moreover, research
suggests that burnt bones are more susceptible to
decomposition in unfavourable soil environments
than non-cremated remains. Based on this infor-
mation, it cannot be excluded that osteological
material was either mineralized or completely
destroyed in the discussed features. This is sup-
ported by the presence of trace amounts of bone
observed in two of the discussed features (Sulim-
irski 1968, p. 114; Kielbasińska et al. 2012, p. 5—
6). Nevertheless, the current database does not
give unequivocal credibility to this hypothesis,
and it is not yet possible to state whether the lack
of osteological material within most of the fea-
tures identified here is due to poor bone preserva-
tion or because they were real symbolic burials.

The erection of funeral architecture which se-
cure grave pits or general burial areas are known
from the Neolithic period (Krzak 1994). On the
basis of TCC customs, this issue has been widely
described in literature (Taras 2003; Makarowicz
2010a, p. 228—242, 382—383). The establish-
ment of such constructions was likely connected
to funeral behaviours that constituted defence
systems, as well as preventive and soothing
measures for a community suffering after the
death of a member (more Durkheim 1903; Brenz
1987). Such rituals had group-forming, educating,
and strengthening functions that maintained a
group’s cohesion and cultivated mutual ties (Gór-
ski 1997; Minta-Tworzowska 2000, p. 48; Kadrow
2006, p. 135). In the TCC case, this is reflected
in very complex funerary practises. Based on the
rites de passage (rites of passage) model of A. van
Gennep (1909), it can be established that funeral
constructions were a component of various ritual
processes. In the literature it is assumed that
one of the stages of funeral rites was to appoint a

---

1. Authors would like to thank Prof. Iwona Hildebrandt-
Radke (Adam Mickiewicz University) who conducted
analysis.
closed sacral area where the deceased was to be buried (Kośko 1991, p. 8). In our opinion, the type of construction discussed here could have played this role due to its architectural form as structures that marked sacral space. Additionally, the registered traces of cremation confirm the symbolic act of “securing” the deceased (Kośko 1991, p. 20—21). This hypothesis is also supported by the presence of funeral goods in potential cenotaphs, which are also commonly deposited in actual graves.

To date, considerations of the occurrence of grave architecture in TCC barrows mostly indicate their genesis during the Neolithic and post-Neolithic traditions (Flořek, Taras 2003, p. 65; Makarowicz 2010a, p. 383; Niculićă, Boghian 2015, p. 86). The presence of grave constructions is common for Neolithic, Bronze Age, and Halstatt period cultures in Europe in both flat as well as barrow cemeteries (Flořek, Taras 2003, p. 65). In the context of the described phenomenon, special attention is paid to the continuity of Final Neolithic (in the form of the Globular Amphorae culture — GAC) and early Bronze Age (in the form of CWC) traditions (Makarowicz 2010a, p. 387). In the first case, similarities in grave construction, mass graves, and the manner of body decomposition reflect potential genetic relationships (Makarowicz 2010b, p. 393). The adaptation of some CWC features can be confirmed by the presence of similar forms of funerary architecture, the erection of barrows, and the remains of sepulchral feasts (Makarowicz 2010b, p. 393).

Finally, it must be emphasized that grave goods always occur in the context of the discussed funeral structures. These include vessels, as well as bronze jewellery and weaponry. Their frequency (from one to 10 vessels, as well as accompanying metal artefacts) suggests that the described features played a significant role in the funerary rites of TCC societies and may indicate a burial. The study of the symbolism of grave goods indicate their importance as a “bridge between the living and dead worlds” (Woźny 2005). Special analysis of vessels from Bukivna barrows has confirmed they contained both food and drink (Czaplińska-Kałużna et al. 2017; Czaplińska-Kałużna, Rosiak 2021). This supports the fact that the discussed constructions contained funerary inventories typically included with deceased were part of various TCC culture funeral rites by the classic period of this culture group.

Conclusions. The presented type of under-barrow architecture comprising rectangular constructions outlined with stones and containing burial goods, has only recently been recognized during excavation and archival research. The discovery of these features in different parts of the range of TCC societies suggests that these structures were symbolic and universal for this community. These constructions were erected beneath the mounds and the remains of fire activity in these contexts suggest the practice of in situ cremation. The chronology of these features confirms that they were erected in the classic stage of the TCC development, when restructuring of earlier the CWC cemeteries primarily occurred in the upper Dniester area. Probably this was accompanied by the introduction of a number of new ritual behaviours. These aspects distinguished, in various areas, the activity of the TCC societies from earlier sepulchral habits known from the Late Neolithic and the Early Bronze Age, as well as from those of contemporaneous neighbouring cultures. It can therefore be concluded that the discussed features are symbol of new funeral rite quality and development which brought the TCC community.

The closed, rectangular form of the described features, using clay-stone material (probably also wood) to delineate the sacred area suggests that these structures played the role of burials. At this geochemical and anthropological research stage, it is hard to clearly state whether they are real burials. For example, the lack of human remains in the majority of examples of these features may be intentional if they were meant to be symbolic burials. Nevertheless, chemical analyses may indicate the former presence of human bones or organic material that has not preserved in the archaeological record. Undoubtedly, this aspect must be examined in subsequent, more detailed studies. At the current stage of research, it can be concluded that the structure of these features, as well as their location and rich burial equipment suggests their importance, and perhaps crucial rank in TCC funeral activities. The occurrence of these architectural structures beneath TCC mounds also confirms the complexity and multi-dimensionality of this community’s funeral rites, which is often emphasized in the literature.

**ЛІТЕРАТУРА**


Дергачев, В. А. 1986. Могильники и соседние территории в эпоху бронзы. Кишинев: Игнатаца.


Шовкопляс, І. Г. 1952. Курганный могильник передсакского времени на середину Днестра. Археологічні пам’ятки УРСР, 4, с. 5-11.


REFERENCES


REFERENCES


REFERENCES


REAL BURIALS OR CENOTAPHS? A STUDY OF THE MYSTERIOUS UNDER-MOUND FUNERARY CONSTRUCTIONS OF THE TRZCINIEC CULTURAL CIRCLE

The purpose of this article is to present a complex analysis of recently recognised funeral structures discovered in Trzciniec Cultural Circle barrows. These features are rectangular and stones are typically situated in the corners, in the middle of the sides, or along the walls, creating unique structures with clearly delineated interior spaces. However, the function of these features is not well understood. This feature form is fragile and slight, which makes them difficult to record using traditional excavation methods. The majority of these features have been discovered over the last decade now that new documentation and exploration tools are available to archaeologists. These constructions are only known from barrow cemeteries and the remains of in situ cremation were also documented in their context. Their occurrence confirms the variety and complexity of funeral rites of the Trzciniec Cultural Circle community. To date, eight structures of this type are known. Four (Barrow 1/I/2010 — Feature 3; Barrow 7/I/2014 — Features 6 and 7; Barrow 2/I/2010/2012 — Feature 1) were registered in the Bukivna cemetery during the Polish-Ukrainian expedition realized by scholars from Adam Mickiewicz University in Poznań, Poland.

The obtained radiocarbon values indicate that these constructions were erected during the classic stage of the Trzciniec Cultural Circle, attributable to the 18 to 16 centuries BC, which was confirmed by archaeological material found within these features. Their occurrence confirms the variety and complexity of funeral rites of the Trzciniec Cultural Circle community. To date, eight structures of this type are known. Due to radiocarbon analysis, the authors have securely established the chronology of these features. The discussion of the function and symbolism of these constructions suggest that they could play the role of burials. This is also suggested by geochemical analysis of soil samples from the Bukivna cemetery. However, due to the lack of osteological material in most of these features, this aspect remains shrouded in mystery and requires additional studies. Regardless, the form, location in barrows, and funerary inventory of these features suggest that they played important role in funeral rites of the Trzciniec Cultural Circle society.

Keywords: funeral rite, under-barrow architecture, funeral construction, the Trzciniec Cultural Circle, barrows.

Я. Романішин, П. Макарович

СПРАЖНІЙ ПОХОВАННЯ ЧИ КЕНОТАФИ? ДОСЛІДЖЕННЯ ТАСМ-НИЧНИХ ПОХОВАЛЬНИХ ПІДКУРГАННИХ СПОРУД ТІШІНЕЦЬКОГО КУЛЬТУРНОГО КОЛА

Стаття має на меті представити комплексний аналіз поко- вальних споруд, виявлених нещодавно у курганах тишін- кового культурного кола. Ці об’єкти мають прямокутну форму, а камені розташовані залишками в кутах, посередині боків або вдогоні стін, створюючи унікальні конструкції з чіткою орієнтацією внутрішніми просторами. Однак функція цих об’єктів не зрозуміла до кінця. Малі розміри об’єктів ускладнюють їхню фіксацію із використанням традиційних методів розкопок. Більшість із цих об’єктів було виявлено протягом останнього десятиліття, коли для археологів стали доступні нові методи документації та інструменти для досліджень. Ці споруди відомі лише з курганних могильників, також у їхньо- му контексті були залежні від зазначених традиційних методів розкопок. Більшість із цих об’єктів було виявлено протягом останнього десятиліття, коли для археологів стали доступні нові методи документації та інструменти для досліджень. Ці споруди відомі лише з курганних могильників, також у їхньому контексті були залежні від зазначених традиційних методів розкопок.

Стаття має на меті представити комплексний аналіз поко- вальних споруд, виявлених нещодавно у курганах тишін- кового культурного кола. Ці об’єкти мають прямокутну форму, а камені розташовані залишками в кутах, посередині боків або вдогоні стін, створюючи унікальні конструкції з чіткою орієнтацією внутрішніми просторами. Однак функція цих об’єктів не зрозуміла до кінця. Малі розміри об’єктів ускладнюють їхню фіксацію із використанням традиційних методів розкопок. Більшість із цих об’єктів було виявлено протягом останнього десятиліття, коли для археологів стали доступні нові методи документації та інструменти для досліджень. Ці споруди відомі лише з курганних могильників, також у їхньому контексті були залежні від зазначених традиційних методів розкопок. Більшість із цих об’єктів було виявлено протягом останнього десятиліття, коли для археологів стали доступні нові методи документації та інструменти для досліджень. Ці споруди відомі лише з курганних могильників, також у їхньому контексті були залежні від зазначених традиційних методів розкопок.