A silver shield-head bracelet and a silver eastern-type spring-cover fibula were found in Otaslavice through metal detector survey. Both artefacts are closely related to finds attributed to the Wielbark culture. Their dating conforms to phase B2a or the second third of the 2nd c., respectively.

Keywords: Central Moravia, Roman Period, Wielbark culture, silver finds, bracelet, fibula.
type; that being said, the widening of somewhat off-set edges makes it rather closer to the type Wójcik IIIAb (Wójcik 1978, 45–47, 54, 55, 93, 94, pl. I: 11; IV: 2). Based on more recent classification by J. Strobin (2000, 245, 246, fig. 17) it better corresponds to type I. It is a silver item whose ends were achieved through hammering in a mould, which fact is indicated by two shallow depressions at the rear side of the end of the bracelet (for more details see Natuniewicz-Sekuła 2017, 208, 209; Strobin 2000, 237, fig. 10; 13). Decoration is made via pseudo-granulation techniques and depletion – stamping. Both of these processes are documented vis-à-vis the decoration of the aforementioned group of bracelets (cf. Strobin 2000, fig. 22; Ziemlińska-Odojowa 1999, 17, pl. XII: 3).

Only a handful of exact analogies exist,1 but we can still identify several very relevant pieces. The shape of shield-head ends of the silver bracelets from grave 336 (Fig. 3: 1) at the Kowalewko burial ground (Skorupka 2001, 89, 149, pl. 100: 7, 8) is the closest item to the Otaslavice piece. Similarities are most prominent with regard to the classification of the decorative ends, with two ribs that separate the conical part. Other similarities include the shaping of the ends of the bracelets – slightly offset and widened. The artefacts from Kowalewko are distinct thanks to decoration. This group can also include bronze artefacts from the burial ground at Babi Dól-Borcz, grave 43 (Fig. 3: 2; Mączyńska/Jakubczyk 2017, 251, fig. 8; Mączyńska/Urbaniak 2007, 26, 37, fig. 2: 5, 6), as well as yet another bronze item from Chajew (Fig. 3: 3; Kaszewska 1987, 118, 120, fig. 1: c–e) whose similarities with the find from Otaslavice include the edges of ends and head with two ribs. Less evident examples include finds from the burial ground at Ulkowy, grave 93 (Tuszyńska 2005, 34, 35, pl. XXXVIII: 4, 5) with more complex ends, but with strip-shaped body without set-off, and with different decoration.

As for territory outside of the Wielbark culture, we shall mention the Wójcik IIIAb type golden bracelet from cremation grave in Wulzeshofen (Fig. 3: 4; Beninger 1932, 216, 217, fig. 3; Tejral 2015, 82, 88, fig. 34: 5) where the shape of the band is very similar to that of the find from Otaslavice,

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that being said, the shape of the ends is different, as is decoration. another similar artefact was found at the cremation burial ground in sekule (disrupted graves; fig. 3: 5); this item can be classified as the wójcik I type (Iván/Kovácsová/Rajtár 2019, 294, fig. 10: 4); this example is also distinctive in terms of decoration. as for moravian finds, the one closest to the fragment from otaslavice is a silver fragment from dobromilice (Čízmář et al. 2013, 299, fig. 2: 5) which is classified as wójcik IIa or strobin IB type, respectively (Zeman 2017, 134). it is a silver fragment possibly from settlement context whose end features two ribs.

the dating of the item from otaslavice can be based, for the most part, on the aforementioned analogies. the burial 336 from kowalewko is dated as the turn of phase B2b of the wielbark culture (1st half of the 2nd c.; cf. most recently in Mączyńska 2007, 5), especially due to the presence of type A 38/41 and type A 120 fibulae (Skorupka 2001, 89, 149). similar dating may apply to grave 43 at babi dół-borcz (Mączyńska/Urbaniak 2007, 26, 37), with somewhat later grave 93 from the ukowy burial ground.
which is attributed to phases B2b–B2c (Tuszyńska 2005, 34, 35, 46), i.e. around mid-2nd c. The famous golden find from Wulzeshofen belongs to the period of Marcomannic wars or shortly after them (Tejral 2015, 88, fig. 43). However, the golden jewel is not a typical representative of bracelets of the middle Roman Period. Some experts refer to it as a local imitation or adaptation of Wielbark style (Strobin 2000, 241), or even a prominently stylised late example (Rajtár 2013, 136, 137) based quite possibly on the Middle Danubian tradition (Iván/Kovácsová/Rajtár 2019, 295).

Within the framework of the chronology of the Roman Period used for the Germanic peoples along the Elbe river on the territory of the former Czechoslovakia, the Otaslavice piece would belong to phase B2a (first half of the 2nd c., cf. Tejral 1986, 106). The golden find from Wulzeshofen suggests that similar
forms were popular after the mid-2nd c. Therefore, second third of the 2nd c. is also a possibility.

For the time being, it is still unknown whether some of these shield-head bracelets from Bohemia and Middle Danubian region constitute Wielbark imports (e.g. Droberjar 2015a, 46–48), local imitations of the Wielbark style (Droberjar 2015a, 46), or evidence of local production traditionally derived from the oldest jewel from an opulent inhumation grave number 5 at Zohor (Iváník/Kovácsová/Rajtár 2019, 294, 295; Tějná 1999, 175). At this point, we shall point out that finds attributed to the material culture of the Germanic peoples settled around the Elbe River are often damaged by the heat of the cremation mound, which makes dating more complicated. Debates on local production which, at least in the early stages, could have represented a source of inspiration for Wielbark culture production, are based on individual differences in shapes, early specimens and mapping of sites. This scheme, based essentially on the theory on significant inspiration potential of the Middle Danubian region, which saw progressive development thanks to the proximity of the Roman border, has been analysed several times. However, we must say that, in the case of the bracelets analysed here, we must wait for a complex resolution. A key answer to all main questions could be found in a discovery of workshops or relics thereof, or semi-products, of which there are none so far.

The second find from Otaslavice represents a silver fibula damaged by the heat of fire; its precise dating is therefore based on its condition. Based on the shape of the foot and catch plane, we can identify it as type A38/39 or A38/41, with some degree of discretion. Interestingly, the decoration on the knot on the bow resembles the decoration on the bracelet. The A38/39 type fibulae belong to B2 stage with the
optimal occurrence during the phase B2b of the Wielbark chronology (Maczyńska 2009, 33; Oleđzki 1998, 74); and as for absolute chronology, M. Oleđzki (1995, 235) puts them between 100 and 150, which would correspond to phase B2a by J. Tejral (1986, 106). E. Droberjar (2015a, 38, 2015b, 107, tab. 1) who was the last to summarise the dating of A38/39 type fibulae on our territory did not rule out the possibility of the occurrence of these items over a long period of B2b phase (130/140–150/170). This theory was based on finds in graves in Prague-Vysočany at the site locally known as ‘Na Klíčově’ (grave 2/1888; Anonymous 1888, 318–320; Svoboda 1948, fig. 29) and Jevičko (grave 7; Droberjar/Jarušková 2017, 47) which suggest the second half of the 2nd c. (due to the presence of younger artefacts). The aforementioned type of fibulae does not belong to the typical signs of the transitional period of B2/C1.

ROMAN PERIOD SETTLEMENT IN THE VICINITY OF THE SITE OF DISCOVERY

Otaslavice, Prostějov distr., being part of the Brodecko micro-region, belongs to the so-called ‘old settlement area’ with countless archaeological sites and finds, but also increased interest in the study of these sources, which has lasted for more than a century. The strategic location of the village in the proximity of the mouth of Vyškovská brána at the flat Hornomoravský úval is supported by the clearly prominent highest point of the area, the Předina hill, which, at 313 m a.s.l., constitutes a dominant feature of the area (today it features a transmitter station and an observation tower). It is assumed that in the past it must have been a very important reference point within the geographical centre of Moravia. Regarding spatial and chronological aspects, we shall mention large settlement along the right bank of the Brodečka river which has proved to be rich in finds, specifically at the site locally known as ‘Bažantnice’, cadastre unit Brodek u Prostějova and Otaslavice (see Fojtík 2019, 60, 61, with a list of available sources and bibliography), which is localised approximately 2 km to the south of the site of discovery of the two items, thereby allowing for the speculation on the existence of a cremation burial ground (Fig. 4). Traces of a Germanic settlement is also registered at the site locally known as ‘Lískovec’, cadastre unit of Brodek u Prostějova, where a pit was analysed in 2000 following disruption due to the construction of optical cable network (Šmíd 2001). Next one is located on the slope below the cemetery in the village of Vranovice (random find of a bronze fibula in the collections of the Prostějov Museum and unpublished surface collections of M. Šmíd from 1991). The aforementioned activities during the Roman Period are supported by more frequent isolated finds of Roman coins: as for the area in question, we can mention Hadrian’s denarius from the site known as ‘Chmelence’ in Otaslavice, or Iulia Maesa’s sestertius from the Otaslavice clay pit, as well as an antonianianus of Gordian III from the site locally known as ‘Štěpnice’ (cf. e.g. Gottwald 1924, 123).

XRF ANALYSIS AND STATISTICAL EVALUATION

Both silver artefacts (bracelet I Blume type and brooch A38/39 or A38/41 type) were analysed using handle X-ray fluorescence spectrometer Vanta (Olympus, USA). The parameters were as follow – excitation energy 0–40 kV, acquiring time 60 s for phase 1 (8–40 kV) and 10 s for phase 2 (0–8 kV), radius of measured area was 9 mm. The surface of both artefacts was polished using corundum polishing adapter. Each spot was measured in three replicates and consequently the data were averaged. Measured XRF data (Tab. 1) were transferred to statistical software R (R Core team 2020; Wickham 2016) and studied by principal component analysis (PCA) and cluster analysis (CA). Fig. 5 shows the Score Plots (PCA) of XRF data obtained by analysis of silver shield-head bracelet from Otaslavice and from literature, i.e. 13 silver snake-head (Schlangenkopf, Schild-Kopfarmringe) bracelets (4 pcs Wójcik IIIA, 2 pcs Wójcik IVB and 7 pcs Wójcik V type; Natuniewicz-Sekuła 2017, tab. 2; measured in replicates) and 1 silver shield-headed bracelet from Hroznová Lhota I (Zeman 2017, tab. XIV). Note that,
both datasets from literature for statistical evaluation were measured by XRF as well. Distinct segregation of analysed bracelet, shield-headed and snake-head bracelets type Wójcik V from snake-head bracelets type Wójcik IIIA and IVB was observed (except one bracelet Wójcik IVB). The first two components explain 52.05% of the variability in data. Note, that cumulative proportion of variance with third and fourth component explains 66.55% and 76.75% of the variability in data. The cluster analysis proved the presence of three clusters (Fig. 6). The analysed bracelet is located in cluster with silver shield-headed bracelet from Hroznová Lhota I and four snake-head bracelets (i.e. three Wójcik type V and one Wójcik type IVB). Based on those results we can conclude that the analysed bracelet has material properties close to the shield-headed bracelet from Hroznová Lhota I and snake-head bracelets belongs to Wójcik type V. The XRF data of silver brooch from Otaslavice was compared with a later silver spring-cover brooches (Natuniewicz-Sekuła 2017, tab. 2). PCA analyses (Fig. 7) shows segregation of studied brooch from the later silver spring-cover brooches. In conclusion, we can say that their material composition is different.

CONCLUSION

Both silver artefacts represent relatively rare finds on the Moravian and Middle Danubian territory. They are, however, becoming more frequent thanks to increased use of metal detectors (cf. new discoveries of bracelets: Čižmář et al. 2013, 299, 300, fig. 2: 5; 5: 9; Droberjar 2015a, 48; Zeman 2017, 134, map 5). As for workmanship and decorative elements, the finds from Otaslavice reflect the reference to the Wielbark artistic tradition. Considering the ‘spatial proximity’ of the fibula and the bracelet on the site, similarities in workmanship and condition upon discovery (deformation, evident damage by heat of fire), we can speculate that they come from scattered cremation graves, but this theory cannot be confirmed or ruled out. Making the situation even more complicated, no other finds attributed to the Roman Period were made at the site, which would otherwise help clarify the situation. We have to approach both items solely as finds made through metal detector survey.

From above mentioned results of XRF analysis we can hypothesize that typologically different bracelets Blume I and Wójcik V originating from similar silver alloy. Based on the already published research, a silver processing in barbarian settlements was done by melting of a Roman silver items (including coins) and consequent manufacturing of barbarian jewellery (Droberjar 2014; Voß 2013).
As for chronological dating, the items belong to the 2nd c. (stage B2). The A38/39 or A38/41 type fibula dates to between B2a and early B2b phases. The bracelet close to the Blume I type dates to between B2a and early B2b phases. Based on Polish analogies the optimal occurrence would fall under the period prior to the half of the 2nd c., but based on the golden bracelet from the cremation grave in Wulzeshofen, we cannot rule out the possibility it dates to after the half of the 2nd c.

The significance of the silver bracelet for the Roman Period community is hard to ascertain with respect to the context of the discoveries. However, if we were to look at the occurrence of silver and gold bracelets on the Wielbark culture territory and outside of this area, we could say that these items were typical in graves of members of elites (Beliavets/Przybyła/Voroniatov 2018, 166, 168, 175, tab. 2). Silver artefacts are more commonly found in graves of women, while they are much rarer in graves of men (Skóra 2015, 176, footnote 44). During the Middle Roman Age in particular they represented typical grave goods in graves of elites. In the case of golden, and quite possibly even silver, items found outside the centre of the Wielbark culture, these jewels are considered as gifts (prestigious goods), and they are perceived as evidence of communication within the Barbaric, and this phenomenon is in no way contradicting the imitation trends and fascination of ‘the Wielbark aesthetics’ (Beliavets/Przybyła/Voroniatov 2018, 174–176, fig. 8).

BIBLIOGRAPHY


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