EARLY MEDIEVAL WINGED SPEARHEADS
FROM PRESENT-DAY SERBIA

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Abstract: In Bačevci, a village on the bank of the Drina, a winged spearhead with a pre-
served piece of a wooden shaft was found by accident. Only two similar spearheads have
been discovered in Serbia, also without an archaeological context. The paper describes
these spearheads and presents the results of botanical, radiographic, typological, and
chronological analyses. The lack of context challenges archaeological interpretations.

Keywords: Syrmia, Drina, Bačevci, Vinča, Fruška Gora, winged spearhead, early Middle
Ages

Introduction

Europe yielded a large number of early medieval winged spearheads. They were being discovered accidentally (as a rule of thumb) or during archaeo-
logical excavations (as an exception), from Scandinavia (e.g. Petersen 1919) and
the British Isles (e.g. Shetelig 1940) in the north, across Western and Central
Europe (e.g. Husár 2014; Westphal 2002; Ypey 1982), up to the Balkan Peninsula
(e.g. Bitenc and Knific 2009; Demo 2011; Miletić 1991) and the Mediterranean
Sea in the south (Schwarzer 2004), and the Mureș Valley in the east (Pinter 1998).
Three of them have been discovered on the territory of present-day Serbia1 (Fig.
1), each without a proper archaeological context. The aim of this paper is to de-
scribe these weapons, compare them with other similar artefacts, classify, and
date them. Without an archeological context, any deeper analysis seems elusive.

The most recent discovery

In May 2017 a member of a closed Facebook group posted three pho-
tos of a winged spearhead thrust into the ground, with preserved remains of a
wooden shaft in its socket, stating that ‘they’ found it during a reconnaissance

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1 Whenever the name of a country is mentioned in this paper, it refers to that country with the bor-
ders at the time of writing (March/April 2020), unless specified otherwise.
A survey of a World War I battlefield. The spearhead was given to a bayonet collector, who kindly sent it to the author to examine, analyze, and publish, allowing the wood to be sampled for botanical analysis and possible radiocarbon dating. He wished to remain anonymous.

According to its owner, the spearhead was found in Bačevci, a small village in western Serbia, situated between Ljubovija and Bajina Bašta, near the confluence of the river Bačevačka Reka into the Drina. He claims that the spearhead was not taken out of the Drina or its banks, but rather found in its vicinity, although the exact finding site has never been revealed. During World War I, a trench war between Serbian and Austro-Hungarian armies raged along the Drina, including the areas near Bačevci (Игњић 1985, 324). Therefore, it is plausible that this medieval weapon was dug out from a 20th-century battlefield.

The spearhead is well preserved despite the lack of proper conservation (Pl. I). Corrosion damaged the blade’s surface layer and created holes in the socket.

The spearhead is 428 mm long, and it weighs 980 g. A deltoid shaped blade has a rhomboid cross-section. It is 300 mm long, with a maximum width of

Fig. 1. Map of sites in Serbia with winged spearheads

Сл. 1. Карта налазишта копаља са крилицама у Србији
56 mm at the bottom of the blade, 259 mm below the tip. At this point, the blade is 16 mm thick. X-radiography revealed no signs of pattern welding or any other significant changes in metal consistency (Pl. I: 4–6).

The bottom of the blade gently and gradually transforms into a simple undecorated socket with a circular cross-section. The socket is 128 mm long; its outer diameter is 44 mm; inner – 39 mm. Rounded, almost oval and equally wide (17 mm each) wings sit 27 mm above the socket’s mouth. The wings’ span is 93 mm (one wing is 27 mm long, the other 30 mm). Below each wing, there is one iron nail piercing the socket 21 mm above its mouth. The head of one of them is missing. The nails hold the remains of a wooden shaft that once carried the spearhead in place (Pl. I: 9–10).

Other winged spearheads from Serbia

The National Museum in Belgrade purchased a winged spearhead from an inhabitant of Vinča in 1955 (Марјановић-Вујовић 1984, 132–133, cat. no. 326; Нинковић 2009, 465). László Kovács published its length, keeping place, inventory number, and a simple sketch, describing it as a stray find (Kovács 1980, 102, 356, Taf. 64: 4). The sketch represents the spearhead as more robust than it actually is. The authors of two exhibition catalogues considered it an inventory item from a destroyed grave, providing a photograph (Марјановић-Вујовић 1984, 92, 133, cat. no. 326, fig. 326) and a slightly different but still very simple sketch (Јанковић и Јанковић 1990, 82, cat. no. 28.13). Veselinka Ninković supplemented the description of the spearhead with additional details, measurements, and a new drawing (Нинковић 2009, 464, T. III: 1).

The spearhead from Vinča (Pl. II: 1–6) has a long, deltoid-shaped blade with a rhomboid cross-section, a narrow socket with an octagonal cross-section, and two almost identical wings with flat tops and concave bottoms. Two vertical grooves trim the end of each wing.

The spearhead is 425 mm long, and it weighs 587 g. The blade with pronounced ridges and damaged edges is 305 mm long. It reaches its maximal width of 41 mm at the bottom (11 mm thick), which sharply converts into an undecorated socket. The socket is 120 mm long and 89 mm deep; its outer diameter is 31 mm; inner – 26 mm. The wings sit slightly above the socket’s mouth. Their span is 71 mm (each wing is 23 mm long). Radiographic testing showed a uniform metal structure without inconsistencies (Pl. II, 5–6).

The spearhead from the southern slopes of Fruška Gora (found in Grgurevci, Šuljam, or their vicinity) is a well preserved, long (560 mm) and massive (1593 g) stray find kept in the Archaeological Museum in Zagreb (Croatia).
The permanent exhibition of the Military Museum in Belgrade displays a replica of this weapon.²

The spearhead (Pl. III) has a blade with a lenticular cross-section with an almost uniform width that reaches its maximum in the lower part of the blade. From this point, the blade gently curves toward the undecorated socket with a polygonal cross-section (octagonal in the lower and hexagonal in the upper part). Two wings with flat tops and concave bottoms sit near the socket’s mouth. Two vertical grooves trim the end of each wing, and one iron nail pierces the bottom of each wing (a nail per wing). Two small juts placed below each of the blade’s edges decorate the blade-socket connection. The radiographic examination did not show traces of pattern welding. However, a circular motif of higher transparency to X-rays emerged in the lower part of the blade – an inlay of a more radiolucent metal or a faded gentle imprint (Sajdl 2018, 150, Pl. 1–4).

Archaeologists labelled a winged spearhead from a destroyed necropolis in Prilipac near Požega (Pl. II: 7–8) as Carolingian and dated it into the beginning of the 9th century (Зотовић et al. 1978, 118; Бућић и Петровић 1985, 13, сл. 10h), or the 9th/10th century (Мандић 1995, 33, 94, Т. XX: 1). However, it probably belongs to the late Middle Ages, since it differs in shape and size from the early medieval pieces. Also, its wings are not in the same plane with the blade surface; they are perpendicular to it. The Military Museum in Belgrade keeps a similar spearhead from the 14th/15th century found in Liplje near Ljig (Пековић 2006, 121, inv. no. 16041). Due to its probable late medieval date, the spearhead from Prilipac will not be further discussed in this paper.

Remains of the wooden shaft

As a rule of thumb, wooden spear shafts do not survive in archaeological records. Analyses of scarce fragmentary shaft remains showed that, in the early Middle Ages, they were usually crafted from elastic hardwood such as ash and, less frequently, hazel in North-western Europe (Haneca and Deforce 2020, 8), or beech, oak, and mulberry in the Carpathian Basin (Csiky 2015, 51; Husár 2008, 458–459), although softwood such as silver fir seems to be occasionally used as well (Haneca and Deforce 2020, 8; Husár 2008, 460). Several other wood taxa were used for spear shaft production, but rarely (Haneca and Deforce 2020, 8; Husár 2008, 457–461). Preserved remains of the shafts that carried winged spearheads were made of ash (Milošević 2000a, 254; Sekelj Ivančan 2004, 110) and beech (Schwarzer 2004, 363).

² According to Mirko Peković, museum advisor and curator of the Archeological Collection in the Military Museum, replicas of archaeological finds kept in various museums from the territory of former Yugoslavia were crafted in the Archeological Museum in Zagreb between 1957 and 1961 to be exhibited in the Military Museum. The idea behind this activity lies beyond the scope of this paper.
The socket of the Bačevci spearhead holds crumbling and decaying pieces of a wooden shaft, which took the colour of the rust. A small fragment of wood was cut out for a biological analysis and possible radiocarbon dating. The microscopic examination of the specimen indicates that the remains are that of a hardwood, specifically a beech tree (genus *Fagus* L.).

Experts disagree on the taxonomy of the genus *Fagus*, beginning with the number of species it includes (Denk et al. 2002, 214). According to the traditional classification, two taxa dominate Europe and South-western Asia – *Fagus sylvatica* L. and *Fagus orientalis* Lipsky. *Fagus sylvatica* L. spreads from southern Scandinavia, across Western and Central Europe up to South-eastern Europe, Sicily and Spain, while *Fagus orientalis* Lipsky can be found on the Balkan Peninsula, Caucasus, Anatolia, northern Iran and Crimean Peninsula (Tutin 1964, 61; Jovanović i Cvjetićanin 2005, 82). Significant taxa for Serbia, with its complex taxonomy history, is *Fagus moesiaca* Domin, Maly/Czeczott (Jovanović 2000, 201–211; Denk et al. 2002, 214; Jovanović i Cvjetićanin 2005, 75–77), although *F. sylvatica* and *F. orientalis* occur as well (Jovanović 2000, 213; Jovanović i Cvjetićanin 2005, 77). However, a nuclear rDNA study of *Fagus* in Europe and Asia Minor showed that *Fagus sylvatica* L. is the only species on this territory, while *F. orientalis* and *F. moesiaca* should be “treated as synonyms of *Fagus sylvatica*” (Denk et al. 2002, 213).

Estimates of shaft length for the spears with winged spearheads vary from 150–200 cm (Szameit 1987, 155) to 200–250 cm (Husár 2006, 48) or even 240–400 cm (DeVries and Smith 2007, 76). Using the diameter of the preserved shaft remains, Schwarzer concluded that the shafts could have been “several meters long” (Schwarzer 2004, 384), while Kurasiński estimated the length of two Polish spear shafts to cca. 180 and cca. 260 cm based on the size of the grave pits (Kurasiński 2005, 173). Analyzing early medieval graves with spear remains from Slovakia, Husár determined that the total spear length (including the spearhead) varied from 125–233.4 cm for infantry to 170–240/266 for cavalry (Husár 2008, 461–465), but the analysis was not limited to spears with winged spearheads. The scarcity of evidence prevents forming an estimate of the length of the spear shaft from Bačevci.

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3 Dragica Vilotić, PhD, professor at the Faculty of Forestry, University of Belgrade, sampled and analyzed the wood remains. Macroscopic analysis of the small crumbling rust-colored sample did not yield results. Professor Vilotić prepared temporary anatomic samples for microscopic observation by cutting the specimen into extremely thin slices using Reichert microtome. She determined biological genus of the sample from transversal, radial, and tangential cross-sections 15µm thick, observing and photographing them on a Boeco microscope.
Comparisons

The author compared winged spearheads from Serbia with morphologically and technologically analogous weapons known from archaeological literature. The main characteristics used for comparisons are contours, dimensions and proportions, weight, craft technique, and decoration.

The closest analogy to the find from Bačevci is a spearhead pulled out by a scuba diver from the river Mrežnica near Duga Resa (Croatia), broadly dated between the 9th and the 11th century. They are similar in contour, blade and socket shape, dimensions, proportions and weight (Table 1), and both lack decoration and pattern welding. Blade edges of the Duga Resa spearhead curve slightly more and it has differently shaped wings with a wider span (Bošković 2002, 108, no. 17).

Spearhead WP5, discovered on a Byzantine shipwreck in Serçe Limanı bay (Turkey), dated into the third decade of the 11th century (Bass 2004, 3–4), resembles the Bačevci find in contours, dimensions, and blade length/socket length ratio (Table 1). The underwater find is narrower (Table 1) and its socket cross-section is hexagonal at the top (Schwarzer 2004, 367, WP 5, Fig. 21-5, WP 5). Its weight could not be determined (Bass and van Doorninck 2004, 65).

The Bačevci spearhead and the stray find with a broken tip from Bosnia and Herzegovina (B1) share a somewhat similar contour, socket shape, wings’ position, dimensions and proportions (Table 1), and they both lack decoration and pattern welding. B1 spearhead weighs less (Table 1) and has a sharper blade to socket transition, more pronounced blade ridge, and differently shaped wings (Sijarić 2014, 212, 221, T. XLV: 2).

The spearhead from Vinča shares certain features with the find from Bačevci and with spearhead B1: somewhat similar contour and blade shape, approximate dimensions (Table 1), and lack of decoration and pattern welding. The Vinča spearhead is narrower, has a socket with an octagonal cross-section, more parallel blade edges, differently positioned and shaped wings, and weighs less than the other two (Table 1). Mirsad Sijarić considered the Vinča find to be the closest analogy for the spearheads of his variant VIa dated between the second half of the 9th and the beginning of the 11th century, to which he included spearhead B1 (Sijarić 2014, 213, 215, T. XLV: 1–2).

The contour of the Vinča spearhead reminded László Kovács of a spearhead from Tuna (Sweden), dated into the first half of the 11th century (Kovács 1980, 106). According to Nada Miletić, two stray finds from Bosnia and Herzegovina (B2 and B3) resemble the spearhead from Vinča by their sturdy shape, sharp blade to socket transition, blade to socket ratio, and dimensions (Miletić
They have a somewhat similar contour. However, they differ considerably: the finds from Bosnia are larger, more robust, weigh approximately two times more (Table 1), and have socket grooves; additionally, spearhead B2 has a socket with a circular cross-section and a blade with an engraved cross (Miletić 1991, 204, T. IV: 1–2). Veselinka Ninković found the closest analogy for the Vinča spearhead in the 9th-century find from Dobrá Voda (Slovakia) (Ninković 2009, 465). These two spearheads bear almost no resemblance. The spearhead from Dobrá Voda has a blade with arch-shaped edges and lenticular cross-section, narrow socket with a hexagonal cross-section in the upper and nearly rectangular cross-section in the lower part, and short trapezoidal wings positioned slightly above the socket mouth. Both spearheads lack decoration and pattern welding and have an approximate blade length/blade width ratio (Table 1) (Ruttkay 1978, 27, 104, cat. no. 9; Kovács 1980, 98; Husár 2014, Tab. XVIII: 1).

The find from Vinča resembles the Serçe Limani spearhead WP5 the most. They have very similar contours, blade shape, dimensions, and proportions.

Table 1. Measurements, proportions, weight and type according to Westphal’s typology of the winged spearheads from Serbia and comparison examples (*damaged; B1, B2, B3 – unknown find site in BiH)

| Find site, country / Населено место, држава | Vinča, Serbia / Винча, Србија | Brown Hills, Eurovision / Јутарни хиледовци, Европон | B1, BII / БI, БII (2) | BII, BIII / БII, БIII (2) | BIII, VIN / БIII, ВИН (1) | Vinča, Serbia / Винча, Србија | B1, BII / БI, БII (1) | BII, BIII / БII, БIII (1) | BIII, VIN / БIII, ВИН (1) | Vinča, Serbia / Винча, Србија |
|------------------------------------------|---------------------------------|---------------------------------|-----------------|-----------------|-----------------|---------------------------------|-----------------|-----------------|-----------------|---------------------------------|
| Length (mm) / Димензије (мм)             | 428                             | 431                             | 404*            | 425             | 420             | 511**                           | 495             | 490             | 500             | 428                             |
| Blade length (mm) / Димензије (мм)       | 398                             | 398                             | 380*            | 385             | 386             | 385*                            | 368             | 390             | 396             | 398                             |
| Maximum blade width (mm) / Национални широчине (мм) | 56                             | 54.5                            | 50              | 41              | 40              | 65                              | 56              | 51              | 63              | 56                             |
| Socket length (mm) / Димензије (мм)     | 128                             | 123                             | 124             | 120             | 122             | 122                            | 127             | 90              | 174             | 128                             |
| Socket diameter (mm) / Национални широчине (мм) | 39 / 44                      | 43 / 44                         | 41              | 26 / 31         | 27 / 30          | 39                             | 18 / 29         | 32 / 30         | 118             | 39 / 44                      |
| Blade width (mm) / Национална широчина (мм) | 5.36                           | 5.65                            | > 6.82          | 7.44            | 7.65             | > 5.92                          | 6.07            | 5.65            | 6.13            | 5.36                           |
| Blade height / Национална дебелина (мм) | 2.34                           | 2.5                             | > 2.38          | 2.54            | 2.51             | > 2.92                          | 2.9             | 4.33            | 2.22            | 2.34                           |
| Weight (g) / Маса (г)                   | 900                             | 900                             | 703.5           | 587             | ?               | 1333                           | 1113.7          | ?               | 1593            | 900                             |

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(Table 1). Spearhead WP5 differs by its oval blade tip, socket cross-section that is hexagonal at the top and circular at the bottom, and larger wingspan (Schwarzer 2004, 367, WP 5, Fig. 21-5, WP 5).

The closest analogy for the Fruška Gora find is the 10th/11th century spearhead from Malá Kopanja (Ukraine). Similar in contour, dimensions, proportions, and lack of socket grooves, they differ in wing shape and blade cross-section (Kovács 1980, 100, 106, Taf. 64: 1; Sajdl 2018, 150, Tables 1–2). The find from Luboń (Poland), dated into the end of 10th and the first half of the 11th century, and spearhead WP6 from Serçe Limanı wreck (Turkey) mirror the Fruška Gora find in contour and lack of socket grooves but differ in proportions and placement of wings (Kurasiński 2005, 169–170, Abb. 5; Schwarzer 2004, 367, 369, WP 6, Fig. 21-6, WP 6, 389, Tab. 21, 3; Sajdl 2018, 150–151, Tables 1–2). The Fruška Gora find is similar in weight, size, proportions, and the lack of socket grooves with the spearhead found in the Danube near Budapest and a stray find from the Museum of Republika Srpska, but they differ in shape (Kovács 1980, 98, 105, Taf. 61: 4; Sijarić 2014, 212–213, 221, T. XLV: 1; Sajdl 2018, 151, Tables 1–2).

Typology and dating

According to the well-known Peter Paulsen’s classification, the spearheads from Serbia could probably be included in his second group of the *Flügellanke mit vollendeter Form*, characterized by the lack of socket grooves and 10–15 cm wingspan, dated into the period up to the year 1000 (Paulsen 1967, 257–259, 262–264). Although only the spearhead from Fruška Gora has the wingspan over 10 cm, and the one from Bačevci has somewhat archaically shaped wings, they all lack socket grooves and pattern welding.

According to Martin Husár’s typology of the spearheads from the Carpathian Basin, the spearheads from Vinča and Fruška Gora belong to his variant BAd: winged spearheads with wide, flat, straight-topped and concave-bottomed wings (Husár 2014, 33, Tab. XVIII–XXVI). The spearhead from Bačevci could be considered as a transitional form from his variant BAa with relatively massive but narrow wings (Husár 2014, 29–32, Tab. XVI) to his variant BAd.

Herbert Westphal developed a typology of winged spearheads based on their metrical, morphological, and technological characteristics by analyzing grave and stray finds from Germany (Westphal 2002, 221–266), with types II and III being relevant for this paper. The spearheads of Westphal’s type II have a blade with a maximum width in its middle and arch-shaped edges; a socket with a circular or octagonal cross-section, diameter up to 30 mm, and often decorative grooves; and reinforced wings often have vertical grooves trimming their
ends. The type was dated into the second half of the 8th and the first half of the 9th century (Westphal 2002, 257). The type III spearheads dating from the end of the 8th until the second half of the 9th century have a blade with a mostly uniform width; a socket with a circular, octagonal, or square cross-section, diameter up to 38 mm, and decorative grooves; they weigh around 1 kg (Westphal 2002, 258).

Martin Husár included the spearhead from Fruška Gora into Westphal’s type II and the spearhead from Vinča into type III (Husár 2014, 35, n. 57–58). Proportions of the Fruška Gora spearhead (Table 1) approximate the proportions of the type II spearheads from Germany, Netherlands, and Austria (Westphal 2002, 294, Tab. 3.4.a, 296, Tab. 3.4.c, 298, Tab. 3.4.e) and type III spearheads from Croatia and Bosnia and Herzegovina (Demo 2011, 72, Tablica 3). Due to its morphological features, dimensions, weight, and analogies it should be included in Westphal’s type III and broadly dated from the middle of the 9th to the end of the 10th/beginning of the 11th century (Sajdl 2018, 153).

The proportions of the Vinča spearhead (Table 1) are approximate to the proportions of type III spearheads from Germany and Netherlands (Westphal 2002, 294, Tab. 3.4.a, 296, Tab. 3.4.c) and type II spearheads from Croatia and Bosnia and Herzegovina (Demo 2011, 72, Tablica 3). Although its blade shape is characteristic for type III, due to its dimensions, wing decoration, and weight it is closer to Westphal’s type II. Researchers considered it a “typical Carolingian” or “Frankish” weapon, dating it into the second half of the 9th century (Марјановић-Вујовић 1984, 92, 133, no. 326; Нинковић 2009, 465). Based on Westphal’s typology, the spearhead from Vinča could be older, perhaps from the beginning of the 9th century, since it shares features of both types II and III, but lacks pattern welding and socket grooves. Due to similarities with spearhead WP5 from Serçe Limanı shipwreck, a possibility of a later date should not be completely excluded.

While hoping for a possibility of radiocarbon dating, judging on the basis of morphological, metrical, and technological characteristics and analogies the spearhead from Bačevci could be included in Westphal’s type III and roughly dated between the second half of the 9th and the beginning of the 11th century.

**On the origin**

As a rule of thumb, the researchers interpreted the appearance of winged spearheads in the Carpathian Basin and Balkan Peninsula as a consequence of the Frankish political activities in the southeast at the end of the 8th and the beginning of the 9th century: the creation of the Eastern March, Frankish-Avar wars (e.g. Kovács 1980, 97; Tomičić 1985, 227–228; Sekelj Ivančan 2004, 122), Slavic-Frankish conflicts in the times of Liudewit or Ratimar (e.g. Bekić 2004, 174–176;
Bitenc and Knific 2009, 328, cat. no. 91), the establishment of Frankish control in medieval Croatia (e.g. Милетић 1979, 149–150).

Their presence in the 9th and 10th century Carpathian Basin was explained through cultural influences of the empires on its western borders (Kovács 1980, 97, 106–107). Some of those, according to Nada Miletic, even reached Herzegovina later in the 9th century (Miletic 1991, 204–206). On the other hand, younger finds from Slovenia were associated with Hungarian raids in Italy (Bitenc and Knific 2009, 328, cat. no. 91).

Some researchers believe that Frankish workshops produced the winged spearheads (e.g. Miletic 1991; Tomičić 1985, 224–226). Others proposed a possibility of local production based on Carolingian examples (Milošević 2000b, 132–133; Kovács 1980, 107; Ruttkay 1976, 300). That could be the case with the spearheads lacking pattern-welded blades and socket grooves found in Croatia and Bosnia and Herzegovina, as suggested by Ante Milošević (Milošević 2000b, 132–133). Joseph Schwarzer hypothesized that all the weapons from Serçe Limanı shipwreck were made in Bulgaria. Their wooden parts were crafted from two species of beech (Fagus sylvatica and Fagus orientalis) growing on southern Crimea and in southern and south-eastern parts of Bulgaria being one of the Schwarzer’s main arguments (Schwarzer 2004, 363, 386, 396, n. 3). Complex taxonomy of the genus Fagus, as discussed above, and the results of the nuclear rDNA study impact the efforts to determine the origin of wooden shafts and, potentially, the spears themselves, including the spearhead from Bačevci. Even if we adopt the traditional taxonomy, we must acknowledge that Fagus sylvatica spreads all over the European continent, while Fagus orientalis grows on the eastern parts of the Balkan Peninsula and Crimea (Tutin 1964, 61). To the best of the authors’ knowledge, winged spearheads have not been discovered in Bulgaria yet (Йотов 2004). Finally, a botanical analysis of the shaft remains testifies to the origin of the shaft alone, not necessarily of the iron parts of the spear (Sajdl 2018, 154). We could be seriously wrong by presuming otherwise. Until metallographic analyses are done, it is not possible to trace the production place of any of the winged spearheads from Serbia with any certainty.

**Conclusion**

All winged spearheads from Serbia were accidental finds. Archaeological context and absolute dating are completely missing, significantly limiting possible interpretations. For the Fruška Gora spearhead, even the exact place of discovery is unknown. The current state of knowledge of the history of the Fruška Gora region between the 9th and 11th century prevents tying this find to a histori-
cal event or context (Sajdl 2018, 149–150, 154). If Syrmia, where Fruska Gora rises, became a border region of the Frankish Empire after the conquest of the Avar territories at the end of the 8th and beginning of the 9th century, as some authors believe (Калић-Мијушковић 1967, 28, 31–32; Gračanin 2011, 154, 175), Vinča, which is near Belgrade, was located fairly close to the empire’s border. According to Gordana Marjanović-Vujović, the discovery of a winged spearhead in Vinča confirms this claim (Марјановић-Вујовић 1984, 89). The hypothesis of a destroyed grave was logical and natural (Марјановић-Вујовић 1984, 92, 132–133), bearing in mind that a large 8th to 17th-century necropolis was excavated in Vinča on the right bank of the Danube, above the prehistoric horizons (Марјановић-Вујовић 1984, 87–91). Can the Vinča spearhead be a remnant of a Frankish-Avar battle instead? If we accept the proposed earlier dating (beginning of the 9th century), it could be possible, especially if we take into account sporadic evidence of Avar presence to the south from the Sava and the Danube (Bugarski et al. 2013). The somewhat younger Bačevci spearhead could potentially, also with great caution, be tied to Serbian-Hungarian clashes in the Drina Valley at the time of archon Ćaslav (Благојевић 2005, 34–35; Живковић 2006, 69–71). To the best of the authors’ knowledge, no other early medieval archaeological site exists in or near Bačevci. The question of ownership is also difficult to answer because weapons can easily change hands, whether in the course of a battle, as a gift, or as loot. With the amount of available reliable information, any deeper interpretation seems impossible and could lead to completely erroneous conclusions.

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РАНОСРЕДЊОВЕКОВНА КОПЉА СА КРИЛЦИМА ИЗ СРБИЈЕ

Кључне речи: Срем, Дрина, Бачевци, Винча, Фрушка гора, копље са крилцима, рани средњи век

У Бачевцима, селу на обали Дрине, случајно је пронађен врх копља са крилцима са остацима дрвене мотке у тулцу. Са простора данашње Србије потичу још два слична, такође случајна, налаза. Врх копља из Винче је преко откупа стигао у Народни музеј у Београду, док се фрушкогорски примерак, коме није прецизно утврђено географско исходиште, чува у Археолошком музеју у Загребу.

Сва три налаза детаљно су описана и упоређена са сличним оружјем откривеним широм Европе. Приликом радиографских снимања установљено је да код винчанског и подрињског врха нема значајних промена у структури метала. При дну бодила фрушкогорског врха уочена је танка кружница са већом пропусношћу за рендгенске зраке. Ниједан врх није био израђен дамасцирањем. Према резултатима микроскопске анализе дрвена мотка копља из Бачеваца била је начињена од букве, чија сложена таксономија, уз недостатак металографских анализа, не допушта одређивање радионичког порекла.

Према Паулсеновом (Peter Paulsen) класификацији, налази из Србије могли би се вероватно уврстити у другу групу тзв. копља са крилицима довршеног облика, датованој до око 1000. године. Врх копља из Винче уврштен је у Вестфалов (Herbert Westphal) тип II, док су врхови из Бачеваца и са Фрушка горе уврштени у тип III. На основу аналогија и типолошке анализе, врх из Винче датован је на почетак 9. века, али није одбачена могућност млађег датовања, док су врхови из Бачеваца и са Фрушка горе грубо датовани од друге половине 9. до краја 10. или почетка 11. столећа.

Оскудни историјски подаци и недостатак археолошког контекста онемогућавају сложенија и дубља тумачења.
Pl. I Bačevci (drawing: I. Fostikov; photo: J. Pendić; radiographs: N. Filipović, Welding Institute)

Т. I Бачевци (цртеж: И. Фостиков; фото: Ј. Пендић; радиографски снимци: Н. Филиповић, Завод за заваривање)
Pl. II (1-6) – Vinča (cross-section drawing: A. Sajdl; photo: A. Sajdl; radiographs: V. Crnjaković, Institute for testing of materials – IMS Institute); (7) – Prilipac, Munjsko Brdo (Ђућић и Петровић 1985, 13, сл. 10h); (8) – Prilipac, Munjsko Brdo (Мандић 1995, 33, 94, Т. XX: 1)

Т. II (1-6) – Винча (цртеж пресека: А. Сајдл; фото: А. Сајдл; радиографски снимци: В. Црњаковић, Институт ИМС); (7) – Прилипац, Муњско брдо (Ђућић и Петровић 1985, 13, сл. 10h); (8) – Прилипац, Муњско брдо (Мандић 1995, 33, 94, Т. XX, сл. 1)
Pl. III Fruška Gora (drawing: A. Dugonjić; photo: I. Krajcar; radiographs: D. Doračić)

Т. III Фрушка гора (цртеж: А. Дуговић; фото: И. Крајцар; радиографски снимци: Д. Дорачић)