CHAPTER SIXTY

THE MATERIALITY OF FUNNELBEAKER BURIAL PRACTICES:
EVIDENCE FROM THE MICROSCOPE

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Abstract

Flint and amber artefacts from Dutch Funnelbeaker (3400-2900 cal BC) megaliths were examined from a biographical perspective, also involving microwear analysis. It is shown that both flint and amber contributed to the materiality of Funnelbeaker burial practices, which above all stressed the collective identity of the local community. This is evident in the selection of agricultural tools for deposition. Agriculture was of course an important collective task. There are also indications that flint knapping took place around the tomb. A third observation concerns the enigmatic scratches on the transverse arrowheads and flakes, forming regular patterns that cannot have a post-depositional origin. Lastly, both the axes and the amber beads ended up in the grave in a used state, indicating a previous life. However, prior to deposition both items were reground, obliterating any traces of individual ownership before they could be deposited in the communal burial ground.

Keywords: Funnelbeaker culture; burial practices; microwear analysis; amber beads; flint
1. Introduction

Archaeological remains of the Funnelbeaker culture in the present-day Netherlands, dated c. 3400-2900 cal BC, are concentrated in the area north of the Rhine and Meuse rivers (Van Gijn and Bakker 2005). The most conspicuous aspect of the Funnelbeaker culture are the hunebedden, megalithic tombs which served as collective burial places (Bakker 2005; Van Ginkel 1988). They are located for the most part in the Province of Drenthe and contain large amounts of pottery, a find category that has been intensively studied over the years (Bakker 1979; Brindley 1986). Unfortunately, the stone material has so far been largely neglected: publications were limited to simple counts of typological categories.

Currently a project is underway to study the flint, hard stone and amber and jet finds from the megaliths. This project is part of a larger undertaking to understand the structuring role of these materials in Funnelbeaker society, examining artefacts from settlements, burials and special depositions from a biographical perspective (Van Gijn 2010, 2013; Wentink 2006). This paper will examine what kind of finds were deposited in the tombs, what was their use and how had they been treated prior to deposition in the megalith.

The contents of four megaliths were described typo-morphologically: Drouwen-D19, Drouwen-D26, Glimmen-G2 and Glimmen-G3 (Van Woerdekom 2011). Samples were taken for microwear analysis. Additionally, a selection of the flint from megalith Mander-O2 and all the flint material from the stone cist of Diever were studied for use-wear traces as well (Van Gijn 2010, Appendix I). So far, the hard stone objects like the querns have not yet been examined microscopically, but a systematic study was done of the amber and jet ornaments from the megaliths (Verschoof 2011, 2013).

2. The flint assemblage

Most of the flint assemblages from the hunebedden consist of waste and unretouched flakes (Fig. 1). The artefacts are produced on nodules of Scandinavian flint deriving from local boulder clay deposits. Most of this material has internal fractures due to glacial transport. The technology can be characterized as opportunistic: evidence for platform preparation is lacking and the cores have multiple platforms. Transverse arrowheads are by far the predominant formal tool type in the studied assemblages. Other formal tool types include axes, picks, strike-a-lights, scrapers and the occasional sickle blade (Van Gijn 2010; Van Woerdekom 2011).
The microwear analysis showed that the majority of the transverse arrowheads and the picks did not display traces of wear. Both of these tool types were made in a very ad hoc manner, resulting in irregular shapes. In contrast, the axes, sickle blades and strike-a-lights all showed heavily developed wear traces. The axes were used on wood (visible in the use scars) and displayed evidence for hafting. They were frequently re-sharpened and some were even exhausted considering their very small size. Yet, before deposition in the megaliths they were re-sharpened one last time (Van Gijn 2010, Fig. 6.8; Wentink 2006, Figs. 5.4 and 5.5). Apparently, the used axes had to be transformed to “new” ones before they could be deposited in the tombs (Fig. 2).

The choice of tools to be put in the tombs is, I would suggest, not fortuitous: axes, strike-a-lights and sickles had an important role in agriculture, a communal activity par excellence. The axes were used for clearing the forest and undergrowth, the strike-a-lights to create the fire to burn down the stumps and the sickles to reap the harvest. As agricultural tools used intensively during an earlier part of their biography, they moved to a different realm at the end of their life history, to accompany the dead in the world of the ancestors (Van Gijn 2013, 27).
There are some indications that the people not only selected specific flint objects to be put in the communal graves, but that flint even played an active role in the burial ceremonies. The presence of a great quantity of waste and flakes and hammerstones as well as the large number of unused (and often unusable) transverse arrowheads and picks can be seen as evidence for knapping activities around the tomb. Obviously this can only be corroborated by the presence of microdebitage or by refitting, but unfortunately the excavation techniques practiced in the past do not allow this. Yet, the composition of the flint assemblages studied so far is highly suggestive of flint knapping having taken place near the megaliths. This may not be so strange if we recall that flint knapping gives a characteristic, rhythmic sound, which possibly added to the overall sensory experience of the burial ceremony (Van Gijn 2010). Around the world burials tend to be noisy affairs (Huntington and Metcalf 1979) and drums are especially instrumental when attempting to contact “the world beyond” (Needham 1965).
The active role of flint in the Funnelbeaker burial ritual is also suggested by the mysterious scratches we continued to find especially on transverse arrowheads and flakes from the various megaliths. The scratches are always very regular and parallel, sometimes even forming a cross-hatched pattern (Fig. 3). Considering their regularity and restricted spatial occurrence on the tools it is highly unlikely that they were caused by post-depositional processes (see for more arguments Van Gijn 2010, 2013). The scratches can be replicated experimentally by scratching the flint surface with the kind of picks so frequently encountered in the megaliths. This is possibly the function of the ubiquitous picks but more experimentation is needed and archaeological picks should be re-examined for traces of wear.

3. The amber beads

Amber beads are occasionally given along as burial gift as well. It concerns flat, disc-shaped beads with a biconical perforation. The
production method followed a simple sequence of cutting the amber, grinding it and applying the perforations (Verschoof 2011). As many of the beads were heavily oxidized, examination by metallographic microscope was frequently not possible and the extent of wear could only be inferred from the perforation and the general rounding of the bead (as seen by stereomicroscope). Despite the general poor preservation, it could be shown that the great majority of the beads displayed varying extents of wear. Interestingly enough, however, the flat surfaces of most of these beads were ground prior to deposition in the grave, analogous to the grinding of the axes described above. This could recently be corroborated by means of micro CT scans, showing the rounding of the perforation and the “illogical” (sharp) transition between the rounded perforation and the flat surfaces of the bead (Van Gijn and Ngan-Tillard, pers. observ.) (Fig. 4). This constitutes yet another indication that some objects had to be transformed before they could be deposited in the communal grave. As these beads were most likely personal ornaments it can be suggested that their previous life history, linked to a specific person, had to be removed to make it an appropriate object for the communal grave.

Fig. 4. Micro CT scan of a bead from megalith D26 (photograph D. Ngan-Tillard, University of Delft).
4. Conclusion

The megaliths of the Dutch Funnelbeaker Culture also yielded, apart from a great amount of pottery, numerous flint artefacts, various stone objects and amber and jet ornaments. A technological, typomorphological, and microwear examination of the flint and amber component showed that these objects played a crucial role in the materiality of the communal burial practices. Most of these funerary items functioned in a domestic context before ending up in the grave. With respect to flint, those types of tools were selected which played a role in agriculture, a communal activity of great importance to the survival of the group: axes, strike-a-lights and sickles. This corroborates the communal nature of Funnelbeaker burial tradition. There is also evidence for the ritualization of flint. It is possible that flint was knapped during the burial ceremony, as part of the auditory experience of the event. Considering the large number of transverse arrowheads and picks without traces of wear, typological categories that are moreover lacking in settlement context, these objects may have been made near the megalith, again possibly in the context of special flint knapping sessions. Flint picks and transverse arrowheads seem to be linked in yet another, highly puzzling and presumably ritual, way: transverse arrowheads and flakes seem to have been scratched, possibly by means of the flint picks, to produce an intricate pattern of parallel or cross-hatched lines.

Some objects had to be transformed before deposition in the communal burial tomb. It may not be a coincidence that it is the axes and amber beads that were reground, obliterating their previous use. Both must have been linked to specific individuals: the amber beads as personal ornaments and the axes as personal tools. The axe can be considered as a very personal tool because in use, it virtually becomes an extension of the body of its owner (Clark and Chalmers 1998). Before these very personal objects, intimately tied to specific individuals, could be deposited in a communal grave, all traces of their previous life and individual ownership had to be obliterated. Whether the axes can be linked to men and the beads to women, I leave for others to speculate about. I think it is less important, as the key to understanding Funnelbeaker burial ritual seems to be the emphasis on the collective.

Acknowledgements

I thank Karsten Wentink, Corné van Woerdekom and Wouter Verschoof for sharing the TRB experience with me.
References


