

Collective Rex Excavation and Lost Media from the Last Century of British Prehistoric Studies

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This paper will look at the ‘media’ used to record and store archaeological data over the last century, in particular reference to the National Bronze Age Index (NBAI) housed at the British Museum now being digitized as part of the MicroPasts Project (<http://micropasts.org>). Developed in 1913 as one of the first catalogues to document British and European prehistory on a large scale, this corpus took the form of an illustrated card catalogue containing around 30,000 doublex sided cards, serving as a sort of proxy for the objects they recorded. While widex scale dispersal of archaeological archives has not been generally possible, new forms of media and digital engagement perhaps now offer us some innovative inroads into some of these issues. This paper will examine how we can ‘excavate’ these antiquated media sources to both draw meaning and data from these overlooked archives as well as how by employing new technologies, such as the openx source crowdx sourcing platform utilized by MicroPasts (<http://crowdsourced.micropasts.org>), we can open up new avenues of research and public engagement to make these collections relevant to



Fig. 1 – Card Index storage at the British Museum. © J. Wexler CC-BY

"The archive is traumatic, testimony not to a successful encounter with the past but to a... 'missed encounter with the real'"—that is, an allegory of the impossible bridging of a gap." (Ernst 2013: 114)

As we approach the 'media' used to record and store archaeological data over the last century or so, Huhtamo's (2010) definition of *media archaeology* as a 'historically-attuned enterprise' that involves 'excavating forgotten media-cultural phenomena' certainly seems apt to describe the types of processes involved. How do we begin to contemplate the thousands of forgotten archaeological archives hidden away in repositories (for example, see fig. 1) all over the world? These lost worlds where many scholars have toiled away for years, trying to record every detail and bit of information (fig. 2) available about rare and precious archaeological objects in an attempt to bring order and understanding to an almost incomprehensible past seems now like a most Sisyphean task.

British Association Committee on Bronze Implements

Dear Sir,

We wish to draw your attention to a line of research which we think may prove of interest to you. It has long been realised that various events that happened in the Bronze Age, such as movements of peoples and of trade, have had marked effect upon the subsequent history of Europe, and that it is by the study of these problems we may hope to solve many of the obscurities which meet us at the dawn of the Historic Age.

Experience has shown us that many of these difficulties may be cleared up by an exhaustive study of the distributions of certain types of implements and weapons used at this period. It is true that many of such objects have disappeared, while others lying in museums and private collections entirely lack evidence of the site of their discovery ; but there are quite a sufficient number of well-authenticated specimens to solve most, if not all of the problems involved.

The specimens are, however, scattered throughout a large number of museums and collections. In many cases no adequate description has been published. It has been felt that if a complete *corpus* could be formed, if only in manuscript, a great difficulty would be removed from the path of students of this period.

This Committee has decided, therefore, to compile such a *corpus* in the form of an illustrated card catalogue of all the "metal objects of the Bronze Age in the Museums and Collections in the British Isles," hoping that perhaps their example will be followed by students of the subject in other countries in Europe.

The Committee was formed at the Birmingham Meeting of the British Association in 1913, but owing to the war little progress could be made until 1919, though about 1,000 cards were completed during that period.

Fig. 2 – Newspaper clipping from 1920 calling for public assistance in setting-up the National Bronze Age Implement Index (NBAI) by the British Association Committee.

The physical 'media' of choice was often the index card, a type of heavy paper cut to a standard size, used for recording and storing small amounts of discrete data. Invented by Carl Linnaeus, the father of modern taxonomy in the mid-1760s (Müller-Wille & Scharf 2009), it is an Enlightenment tool for classifying the world that became ubiquitous in museums and archives by the Victorian era of extensive collecting.



Fig. 3 – Index cards at the Institute of Archaeology Archive, University of Oxford. © J. Wexler CC-BY

While stored in a fixed, conventional order (fig. 3), often alphabetically, index cards could be retrieved and shuffled around at will to update and compare information at any time. This employment of a flat surface (a map, a list, a file, a census, the wall of a gallery, a card-index, a repertory), has, as Latour has pointed out, commonly enabled one to ‘master’ a question or to ‘dominate’ a subject (1986, 19). The standardized index card allowed for a ‘pliable combinability’ of texts and objects, produced at a distance from their point of origin, which could be assembled into new networks and relationships (Bennett 2013, 39). This opened up new ways to compare and organize objects, collections, and cultures (see Harrison 2014 for further discussion). For archaeological archives, card indexes tended to be used to classify types of objects, which were then filed according to the typological and chronological information contained in the cards, certainly in the hopes of ‘mastering’ a time period or object type.

The cards and documents illustrated here come from the National Bronze Age Index (NBAI) stored at the British Museum (BM), developed in 1913 as one of the first catalogues to document British and European prehistory on a large scale. Known as the ‘principal instrument of research in the British Bronze Age’, the main concept behind the creation of the Index was the idea that by compiling a corpus of all Bronze Age metal objects found in the various museums and collections across the UK, it would be possible for the first time for researchers to study ‘the movements of peoples and trade through the exhaustive study of the distributions of certain types of implements and weapons used in the period’. This corpus took the form of an illustrated card catalogue (employing 25 x 18 cm Globe-Wernicke Co. standard filing cards), with each index card detailing object find spots and types, alongside detailed line drawings and a wide range of further information about the object’s context of discovery, illustrated below. For

over 80 years, it represented the highest standards of Bronze Age object studies, eventually containing around 30,000 double-sided cards, and was worked on by numerous well-known prehistorians and former BM curators, most famously Christopher Hawkes in the 1930s-1960s and Stuart Needham in the 1970s-1990s.

GRID SQUARE & REFERENCE		SPECIMEN TYPE	Old card format - now replaced.
Site COUNTY (OLD COUNTY) PARISH/ RURAL DIST./ URBAN BOR. SITE WITH DESCRIPTIVE DETAILS			Collection TOWN, INSTITUTE, ACC.NO. (SURNAME, INITIALS, ADDRESS - Private) DATE OF ACQUISITION <i>(last date in coll.)</i>
DATE OF DISCOVERY <i>Circumstances of discovery.</i>		REFERENCES TO PUBLICATIONS AUTHOR (DATE)	PREVIOUS HISTORY SINCE DISCOVERY (with dates where available)
Length Width Other dimensions Composition Analyst (whether published) Results Surface Details of Patina, condition, wear etc.		DESCRIPTION	Details of typology
		ASSOCIATIONS/CONTEXT GENERAL TYPE (no details)	
DATE OF RECORDING, RECORDER/SUBMITTER OF INFORMATION SOURCE		REMARKS	OTHER ARCHIVE MATERIAL IN INDEX (OR DEPT) ILLUSTRATIVE AND DOCUMENTATION <small>3/75 7687 166232 5m H&S(P)Ltd Gp841</small>

Fig. 4 – Systemized National Bronze Age Index (NBAI) card fields © Trustees of the British Museum CC-BY

The amount of information contained on such cards could be extensive and intriguing. Often we see a tension exhibited in these cards between systematization (fig. 4) and free-form narrative (fig. 5), beautiful typological drawings and quick sketches (fig. 6), classification and creativity. The human hand, though, is always present in what we see, bringing to mind Harris' conception of an archive as "a crucible of human experience, a battleground for meaning and significance, a babel of stories, a place and a space for complex and ever-shifting power-plays. Here one cannot keep one's hands clean" (Harris 2002, 85).

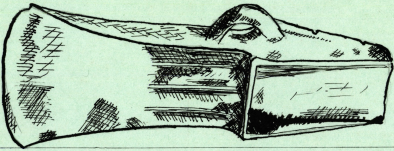
Site		Looped Palstave		Collection	
<p>England Gloucestershire Durdridge (1 mile from Stound. Durdridge Mills Found in a sewage excavation in an orchard, embedded in lias clay, about 10 feet from the surface, at some time before the opening of Stound Museum.</p>		<p>1910 or 1911</p>		<p>Stound ? Stound Museum. But see or in Private Hands? Other Side.</p>	
<p>Length Width Composition Surface Patina</p>		<p>REFERENCES TO PUBLICATIONS</p> <p>An account is given in a cutting from a local (Stound) newspaper, of unknown date, which account also includes a drawing of the implement. For the relevant extracts, see other side.</p>		<p>DESCRIPTION</p> <p>Thickness Weight</p> <p>"It is a remarkably well-formed weapon. The edge is quite sharp, which may be accounted for by the fact that it has been enclosed in a matrix of clay."</p> <p>From the sketch, there appear to be three ridges down the face of the blade; a prominent one; and chips out of the edge cutting edge at the end nearest the hilt, and from the edges of one of the sideflanges.</p>	
<p>ASSOCIATIONS</p> <p>REMARKS</p>		<p>"In this particular bronze are some fragments of wood well found, but unfortunately the ransy (the finder) broke these out."</p> <p>For all known particulars, see OTHER SIDE.</p>		<p>THE GLOBE-WERNICKE CO. LTD. LONDON B 235</p>	
<p>From an old (undated) newspaper cutting from a Stound newspaper, sent to the B.M. in January 1936 by the curator of Stound Museum, to whom the cutting has been returned. The description and particulars on the face of this card are from the same cutting:-</p> <p>"We are indebted to Mr John Bryant, specialist in the antique, of George Street, Stound, for permission to illustrate a bronze belt or battle axe, recently found in a sewage excavation in an orchard near Durdridge Mills. The ransy who found the ancient weapon was well advised in taking it to Mr Bryant, because in addition to being a keen antiquarian, he is anxious to witness the opening of the long-promised Museum in Stound, & although he has been made a valuable offer for this find, he has formed the resolution not to part with it until he has received assurance that it will eventually come to the local Museum..... A find would probably be true (i.e. at Durdridge) as Mr Bryant, for Celtic (sic) people who lived in Gloucestershire would naturally when moving from one hilly district to another select the most suitable spots in marshy lowlands for passing on to firmer ground". Here follows a dissertation on varieties of Celts from 'Aeneas & Armour', a irrelevant remarks about Stone, Bronze & Iron Ages, Romans, Gauls etc. The accompanying sketch is a copy of that accompanying the newspaper article.</p>					
					
<p>Copy of covering letter from L. Jandries of Stound Museum, to the B.M., dated January 1, 1936.</p> <p>"When I got here some 6 years ago, I found the enclosed cutting. I purchased the bronze & I believe it was bought by a man who behaved truly and called himself to Modest. It is probably locked up in his house here, but though I have written to him through his lawyer he does not reply. Still the figure is probably enough for to enable you to describe it in the list of English bronzes should you care to do so."</p>					

Fig. 5 – One of the index card records with extensive narrative from the National Bronze Age Index (NBAI) © Trustees of the British Museum CC-BY

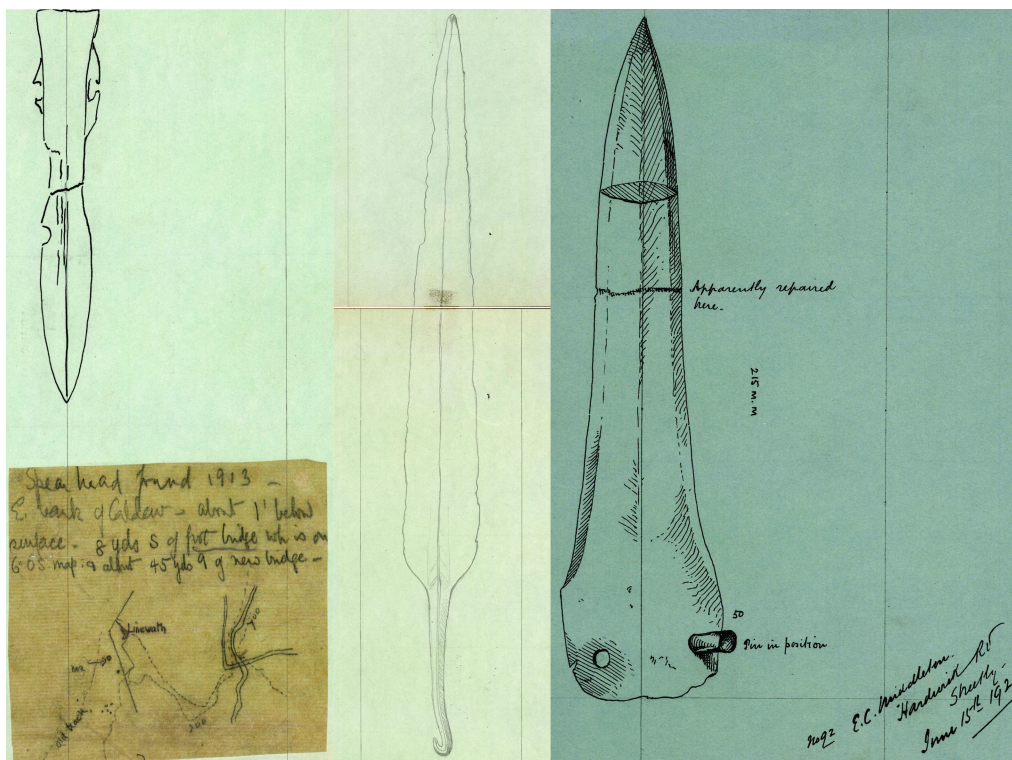


Fig. 6 – Variations in Index card illustrations from sketches to measured typographic drawings © Trustees of the British Museum CC-BY

Beyond recording typological data, often these cards contain additional information (fig. 7) offering fascinating insights into the circumstances of the object's discovery.

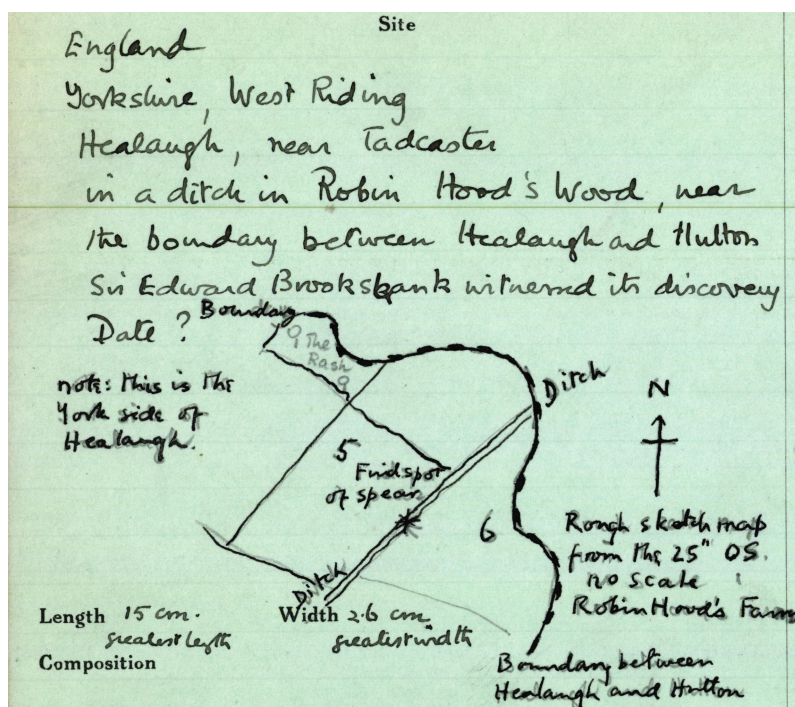


Fig. 7 – 'X' marks the spot. Detail of a NBAI card, showing the findspot of a spearhead © Trustees of the British Museum CC-BY

There is serendipity in the archives, as well. We have cards that record donations by Queen Victoria (fig. 8) to the BM of a bronze axe found in Windsor Great Park in 1866. Another card (fig. 9) records an object discovered in 1808 at

Osmington Hill, Dorset whilst cutting a hill figure dedicated to King George III, who would often pass-by on his way to his seaside residence at Weymouth. In these cases, and many others, the cards' record of historical moments or connections to significant personage seems to eclipse their primary function as a record of archaeological artefacts.

SU 96 76		Bronze palstave.		Collection	
Site England. Berks: Old Windsor C.P. Windsor St. Park. 1866.		British Museum. 66. 5-12			
REFERENCES TO PUBLICATIONS					
DESCRIPTION					
Length 132	Width Butt 18, Blade 46	Thickness 14		Weight 2/5.	
Composition Bronze.	slight side + stop ridges, edge of blade much broken. blade broad, corroded, end of butt broken.				
Surface broken + much corroded.	Patina green.				
ASSOCIATIONS Found with several others in Windsor St. Park.					
REMARKS Presented by Her Majesty Queen Victoria.					
Almost OK					
The Globe-Wernicke Co., Ltd., London B 235					

Fig. 8 – NBAI card recording the donation of a bronze palstave axe found in Windsor Park in 1866 and donated by Queen Victoria to the British Museum. © Trustees of the British Museum CC-BY

<p>Site DORSET, Osmington Hill</p> <p>Osmington Hill nr. Sutton Priors "discovered in cutting out an equestrian figure of the King." This is SY 717 853</p>		<p>Flanged Celt. Bronze flat celt.</p> <p>Collection British Museum 75. 6.</p>	
<p>REFERENCES TO PUBLICATIONS</p> <p>Evans, <i>Anc. Br. Imps.</i> p. 52, Fig. 13. also ref. in Coll. Hearse's personal papers in Record Office at Truro (MS 383/907)</p>		<p>DESCRIPTION</p> <p>Length 157⁻⁻⁻ Width Butt. 29⁻⁻⁻ Blade 98⁻⁻⁻ Composition Bronze. Surface slightly pitted in places. Patina black.</p> <p>flat celt. with flanges, indentations between the flanges on both sides.</p> <p>Thickness 26⁻⁻⁻ Weight 569.</p>	
<p>OK!</p>		<p>ASSOCIATIONS</p> <p>REMARKS</p> <p>Found in Dorsetshire. Document.</p>	

The Globe-Wernicke Co., Ltd., London. B 235

Fig. 9 – NBAI card recording a flanged axe 'discovered in cutting out an equestrian figure of the king' from Osmington Hill, Dorset. © Trustees of the British Museum CC-BY

These cards, in turn, begin to act as a sort of proxy for the objects themselves, an idea of materiality. The records are descriptions of something material on a medium that is a 'material' itself, but in reality it is the information itself that is the historical artefact and the main objects of study (Newman 2011, 9). Consequently, the record of the human interaction (fig. 10) with these archives, proves to be just as fascinating to study as the information actually contained in the records, as contributors to the field of 'History of Archaeology' can certainly attest to (for example, see Murray 2014).

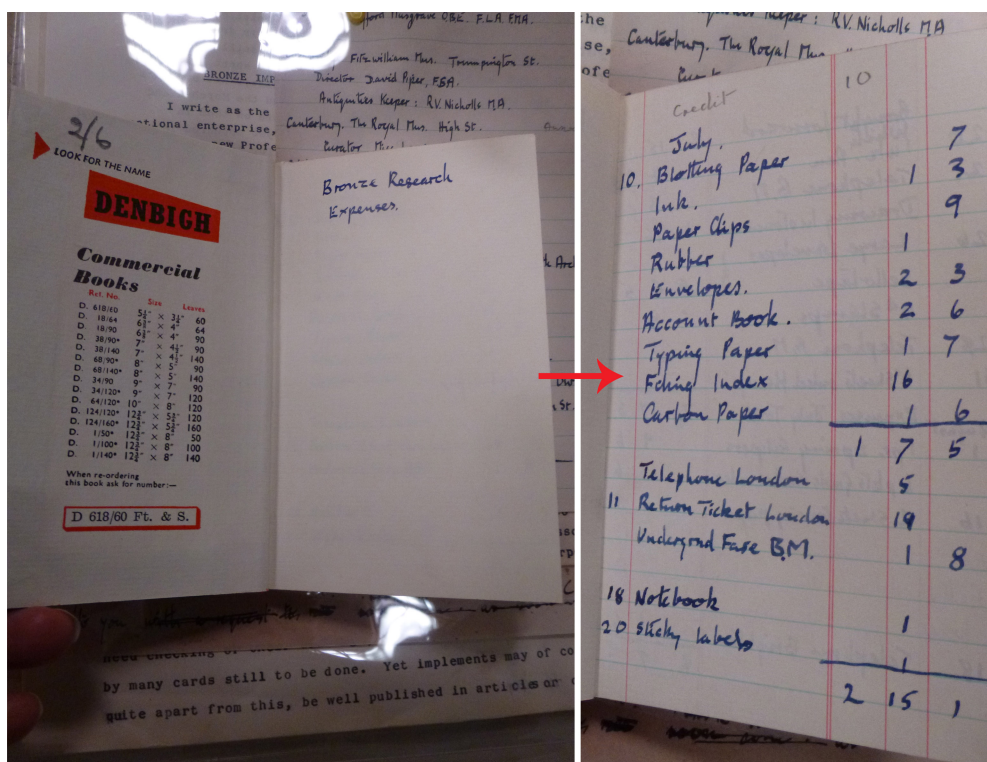


Fig. 10 – Hawkes' book recording 'Bronze Research Expenses' in connection to his work on the Index at the Institute of Archaeology's Archive, University of Oxford. © J. Wexler CC-BY

Along with the connected archival material, the cards exhibit the curatorial practices at the time of recording. Many have been altered numerous times as classification schemes and recording procedures have changed over time, documenting not only the basic archaeological information but also the history of shifting archaeological practices.



Fig. 11 – A box of Index cards exhibiting Hawkes' schematic re-organization of the Index from 1954-1965. © J. Wexler CC-BY

The Index varied between being a public reference collection to being a tool for private research largely depending on the whims of the person and institutions in charge of it. This is most obviously played out from 1955-1965, when the Index was loaned from the BM, where it was publically accessible, to the Institute of Archaeology, Oxford University under the supervision of Prof. Christopher Hawkes, the new Chair of European Archaeology. The reasoning behind this move was that he had been in charge of the Index when he was an Assistant Keeper in the Department of British and Medieval Antiquities at the BM and he was 'wishing to supervise its re-classifying, indexing, and augmentation'. While Hawkes did greatly enhance the Index, it very much became his personal research collection, kept away from both the public and other scholars, which he used to pursue his theories of Bronze Age metalwork chronologies (see Bradley 2013 for further discussion). This is most visibly seen (fig.11) in his reorganization of the entire Index according to his (unpublished) typological scheme, the particulars (fig. 12) of which have only recently been rediscovered and catalogued at the Institute of Archaeology's archive. The Index became a public reference collection once again after being returned to the BM in 1966,

although it was not actively researched again until 1973 when Stuart Needham took over its stewardship, and was largely abandoned by the 1990s.

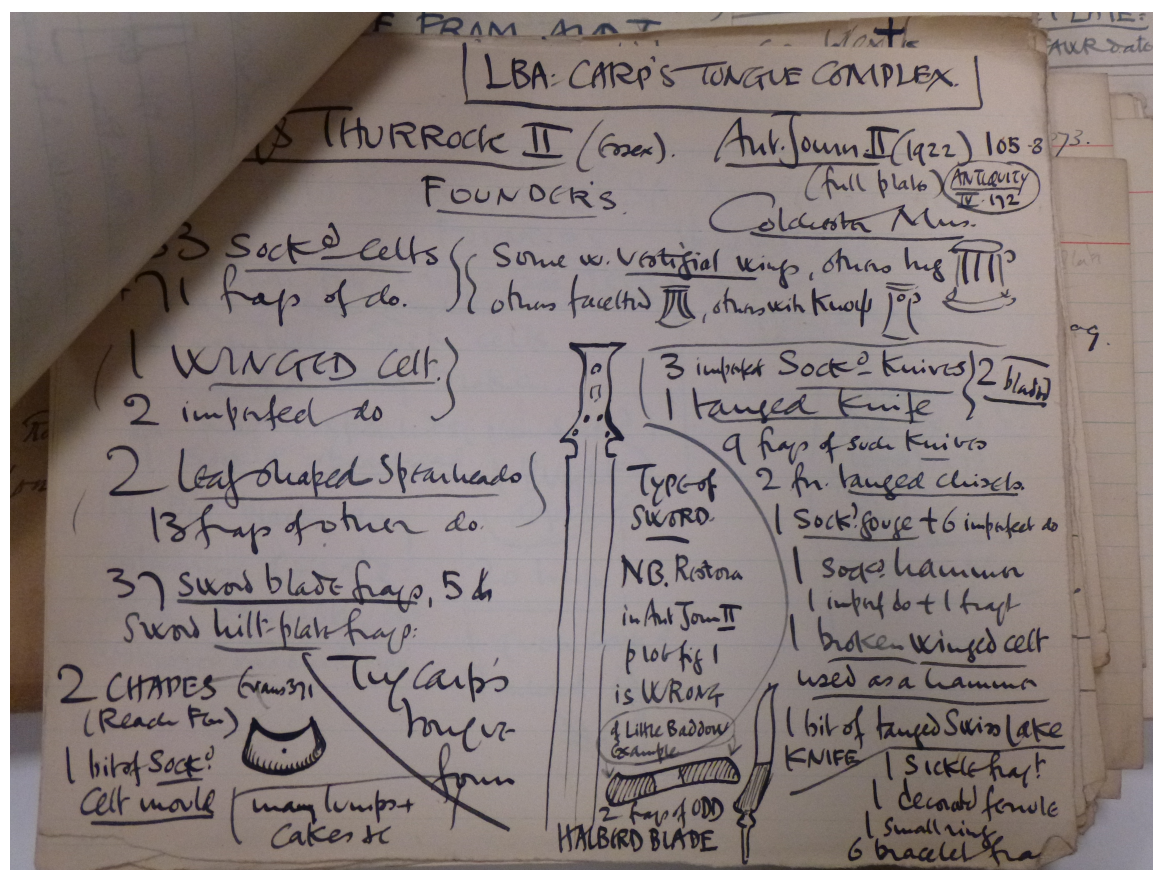


Fig. 12 – Hawkes' reworking of Late Bronze Age sword types, Institute of Archaeology's Archive, University of Oxford. © J. Wexler CC-BY

Switching 'Media' from Old to New

The multi-layered history of card indexes in archaeological studies is equally intriguing to study and complicated to deal with. How can we approach or, indeed, 'excavate' these antiquated media sources to both draw meaning and data from these overlooked archives as well as make them relevant to modern communities?

Index cards continue to act as 'mobilization devices', allowing access to information and data about a physical object without actual interaction with this object in the physical world (Latour 1986, 10). However, although indexes are a good example of a type of mustering technology in which dispersed items of knowledge are codified and brought into the centre for agonistic (e.g. academic, imperial, economic, nationalist) arguments, in reality the politics of aggregation and dispersal often makes these indexes largely inaccessible. The popular notion that archives are, as Parikka (2013) states, "remote, largely obsolete institutions... antiquated, inevitably dusty libraries" often hidden away from the public is not completely false unfortunately. In the case of the NBAI, for example, although it has been moved around over the last hundred years, as mentioned previously, it has remained for much of its existence in a largely inaccessible, off-site BM storage facility where its visitor's book records only six visitors over the course of 30 years (though conspicuously this does include everyone who has ever written significant books on Bronze Age metalwork during that period). Even if this Index and others were more accessible, specialist knowledge would still be needed to even begin to approach such large behemoths of information.

Wide-scale dispersal, therefore, has not been generally possible but new forms of media and digital engagement perhaps now offer us innovative inroads into some of these issues (for example, see Bonacchi 2012, Richardson 2013).

As part of the *MicroPasts Project* (<http://micropasts.org>), the digitization of the entire Bronze Age Index has been undertaken. This project is focused on demonstrating how the interplay between reassessing archaeological archives and the employment of new technologies can open up new avenues of research and public engagement. The MicroPasts project employs an open source crowd-sourcing platform (<http://crowdsourced.micropasts.org> as shown in the screenshot in fig. 13) in order to solicit help from members of the public, also known as ‘citizen scientists’ or ‘citizen archaeologists’, to assist us with transcribing these cards (Bevan et al. 2014, Bonacchi et al. 2014a, Bonacchi et al. 2014b, Keinan-Schoonbaert 2014, Doherty 2014).

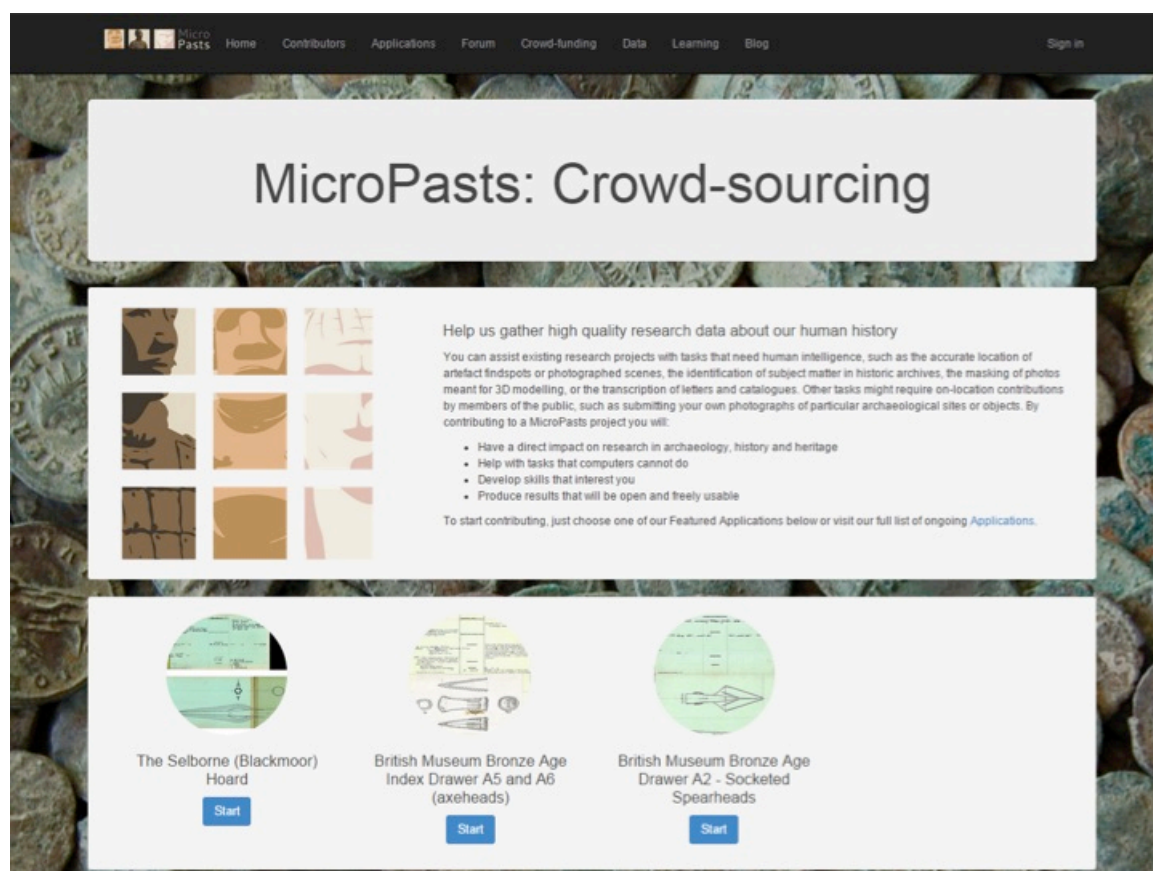


Fig. 13 – Crowd-sourcing platform for MicroPasts (<http://micropasts.org>), each new ‘app’ represents one ‘drawer’ of index cards.

Reflecting the existing physical organization of the Index, pictured in fig. 1, each ‘app’ generally represents one ‘drawer’ (e.g. Drawer A9 – Palstaves) organized by object type and geographical location, and each individual card in the drawer is scanned at a high resolution, available via our Flickr site (<http://flickr.com/photos/micropasts>) and stored in three secure locations for backup integrity. For each transcription app, the MicroPasts collaborators are prompted to fill-in a structured field interface (fig. 14) based on the contents of the cards, and the completed transcribed data is available for download from the project’s website under an open license. These data will eventually be incorporated into the Portable Antiquities Scheme’s database (<https://finds.org.uk>), which on its own includes over one million objects (of which over 15,000 are attributed to the Bronze Age) discovered by the public in England and Wales, eventually making the NBAI records not only easily

accessible to the public but also creating possibly the largest national database of prehistoric metal finds anywhere in the world.

British Museum Bronze Age Index Drawer A5 and A6 (axeheads): Contribute

Please transcribe this index card

Note You can use your mouse wheel track-pad to zoom in/out the picture, as well as drag & drop to navigate in the document.

Object Type

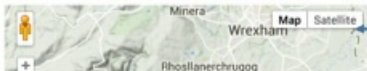
Date of Discovery
 Year Month Day

Right Corner

Grid Reference

Site

Georeference the site



Structured data capture

ST 2547 **NGR** **31 27** **SOCKETED AXE**

SHROPSHIRE SELATTYN OAKHURST	Circumstances Found 19 Sept 1986 by Mr. Rennie whilst metal-detecting. The find was in 'shaly' soil about 12" below ground level, below the road.	Collection Private - Lord Haverley
All Site	Context ROAD	Label/Markings
Description—Dimensions L 11.3 cm; E 5.7 cm; W 4.5; B 4.5; H 1.7; D 0.5; Wt 357.5 g Typology Socketed axehead, depending on the find and a very rare one (like fine things) can full length of socket, sub-shoulder upper part; lower part is missing find was on the partly spread vertical rib; body has slightly flared base-rib and was below feet - broken metal not		Bibliography

OpenLayers based image zoom of card

Geo-referencing tool for co-ordinate capture

Fig. 14 –MicroPasts' interface for transcribing data from the digitized Index card.

In a way, we are attempting to fulfill the original intentions of the creators of the NBAI from the early 20th century (fig. 2), by once again calling on the public's help with documenting and transcribing the archive as well as making the Index a fully renewed publicly-accessible resource. Crowd-sourcing, therefore, can be seen as an act of knowledge aggregation by the dispersed-many rather than the aggregated-few. These processes can be connected to the concept of the 'collaborative museum', where the museum can be viewed as a series of 'anthropological assemblages mobilized through existing and emerging scientific-administrative and public-civic apparatuses' creating new social actions and networks (Harrison 2014, 231; Bennet 2013). By changing the medium of the Index via digital technologies, we are removing the institutional controls, for better or worse, and distributing the agency of this data.

Why are people so intrigued to help with this project? While this is something we will be looking at more closely in the future, perhaps it is because it removes the 'remoteness' of the archives both symbolically and physically. By digitizing records formerly only accessible to few experts and museum staff, they are suddenly becoming democratized, open-access resources for anyone to engage with, albeit with the existing but, arguably, progressively shrinking limits of a digital divide. It took a new infrastructure of communicating realities—the impact of digital media—to put this critique of historical discourse into media-archaeological terms and practice. In an age of renewed archival fever, the re-aggregation and digital mustering of old archives, along with the virtual re-aggregation of object collections via 3D proxies (fig. 15), is also a very popular act. Co-production of archaeological data not only removes the traditional idea of 'authority' (Richardson 2013), opening up the possibilities for multi-vocal

engagement with the archival record, it gives people a sense of what archaeologists and archivists actually do and the means to actively help them with their work. On the MicroPasts forum, one of the users, for example stated:

Part of the appeal (of the transcriptions) for me is seeing how the original authors put a little bit of themselves into their record cards, and obviously took pride in analyzing and recording the artefacts. I'm just completing a card now in which the patina is described as 'Beautiful apple green'. (<http://community.micropasts.org/t/just-a-silly-thought/140/5>).

This engagement and ongoing dialogue about the Index also creates new archival records of human interaction via social media (Twitter, Facebook), adding to our archival layer cake.

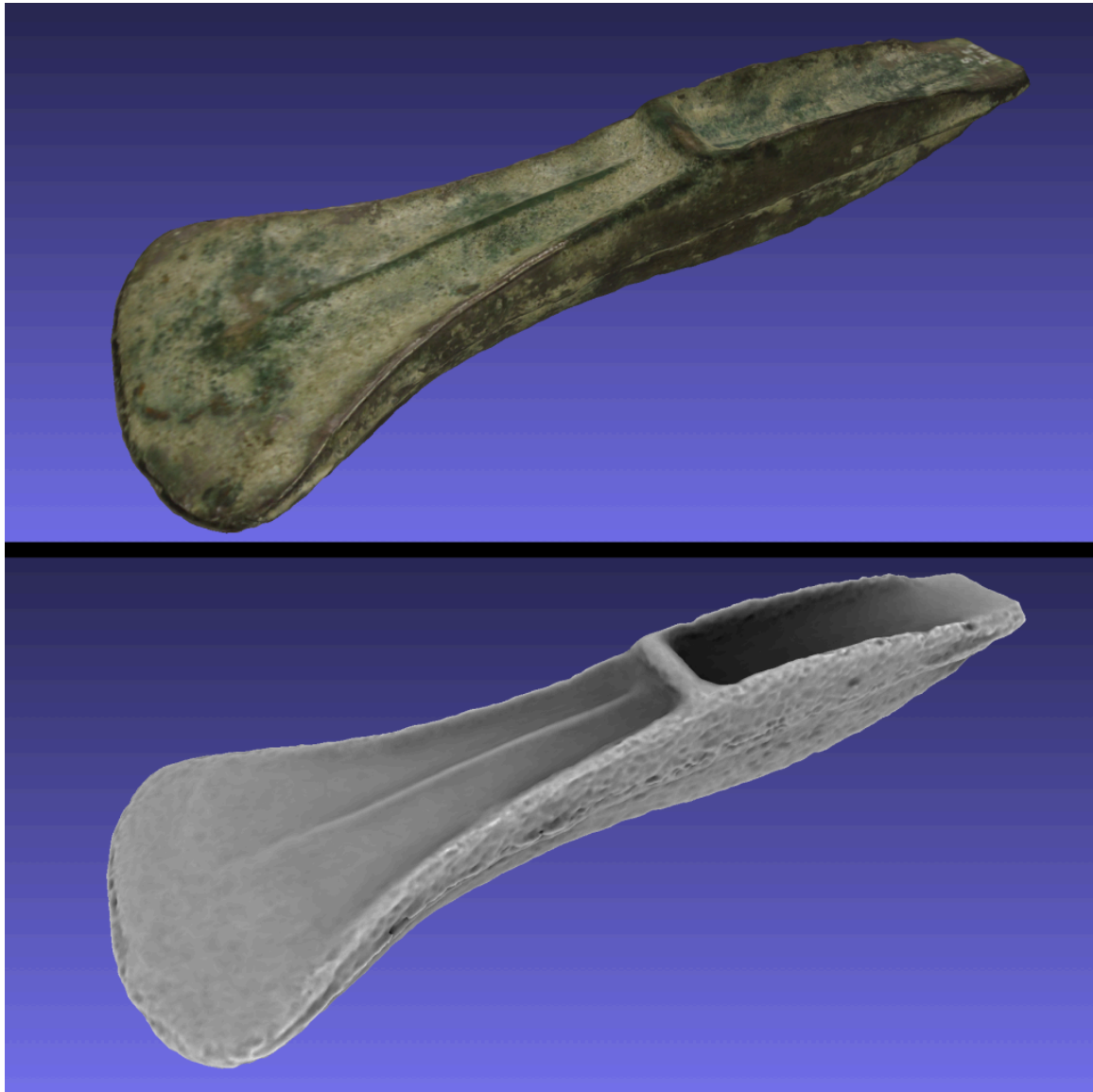


Fig. 15 – A 3D model of a Bronze Age palstave shown in the MicroPasts WebGL 3D viewer.

While this switch in media from a physical, paper format to a digital database for archiving archaeological data not only makes this information increasingly Cartesian, e.g. mathematical objects recorded using binary code, the forms in which data are stored and in which they are presented become distinct entities unlike its paper antecedent (Ernst 2013, 83, 93, 115). Now the image on the screen is just a digital representation or surrogate of the data encoded within, useful as a tool for further research and data processing but far removed from its

original format. With growing digital accessibility comes the increasing responsibility to preserve and update these digital archives as well as the paper ones they represent, especially if we view the digital record as a modern piece of material culture (Newman 2011, 9). Ultimately one media does not completely replace the other, but greater utilization of digital media simply changes and extends the terms of engagement, accessibility, and the flow of information from antiquated archaeological archives to the community and back again.

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