Excavation at Hermitage, Ireland, revealed Early Mesolithic human cremation burials. One burial contained a stone adze, possibly used in the funerary rite and ritually blunted. The H|A|R|P project aims to identify the extent of mortuary activity and place these burials in their broader landscape context.

**Keywords:** Ireland, Mesolithic, cremation burial, geoarchaeology

Overlooking the River Shannon, sitting atop a high bluff on its banks, the site of Hermitage holds a prominent place within the archaeological record of Ireland’s earliest hunting and gathering communities (Figure 1). During the Early Mesolithic, successive generations of people returned here, leaving behind evidence of flint, shale and quartzite tools, the fires they lit and, crucially, their own ways of burying the dead.

Two, or possibly three cremation pit burials were discovered in 2001 during commercial excavations by Ægis Archaeology Ltd in advance of sewage works (Collins & Coyne n.d.; Collins & Coyne 2005; Collins & Coyne 2003). A large area of burning identified near to the cremations may be the remnants of a pyre. Pit Burial A (Figure 2) contained the well-cremated remains of an adult (Figure 3) and a postpipe feature; probably the traces of a grave marker. It
also produced a discrete assemblage of grave goods: two small flint points and a large polished shale adze head. AMS dates from the human remains themselves and charcoal within the fill have produced dates of 8350±40 BP (7530–7320 cal BC to 95.4%; date modelled in OxCal v.4.3, using IntCal13 calibration curve (Bronk Ramsey 2009; Reimer et al. 2013)) and 8350±60 BP (7550–7290 cal BC to 95.4%; date modelled in OxCal v.4.3, using IntCal13 calibration curve (Bronk Ramsey 2009; Reimer et al. 2013)) respectively. This is the oldest burial at Hermitage and the earliest known burial in Ireland. Pit B also contained cremated human remains dating to 8070±40 BP (7090-7030 cal BC to 95.4%; date modelled in OxCal v.4.3, using IntCal13 calibration curve (Bronk Ramsey 2009; Reimer et al. 2013)); the cremated bone in Pit C (dated to 7610±40 BP, 6610-6370 cal BC to 95.4%; date modelled in OxCal v.4.3, using IntCal13 calibration curve (Bronk Ramsey 2009; Reimer et al. 2013)) could not be identified to species-level but is likely to also be human. Ægis’ excavations also produced archaeology relating to the Neolithic, Bronze Age and Iron Age at the site, suggesting the presence of a rich prehistoric landscape.

As part of a Marie Curie Postdoctoral Fellowship in 2015, the artefact assemblage from Burial Pit A was analysed for microwear and organic residue traces (Little et al. 2017). The results of this analysis (Figure 4) led to a reappraisal of human activity at Hermitage, and its relationship to both the Irish and wider European Mesolithic records. A technological study and experimental replication of the manufacturing process, demonstrated that the adze from Burial Pit A had been flaked and highly polished, representing a considerable investment of time. Microwear analysis revealed that it had been used briefly, to chop wood, before being intentionally blunted. The adze was subsequently placed into the burial pit on top of the still-warm ashes of the deceased, and leaning against a grave marker, before the pit was backfilled. Contextualising the discovery of this complex material expression of mortuary practice involved situating the early appearance of highly polished stone tools within the European Mesolithic, a rare instance of a Mesolithic cremation rite, and the extremely rare occurrence of multiple cremations, at a single Mesolithic site. Closer scrutiny of the Hermitage radiocarbon dates suggested that cremation formed a long-lived mortuary practice on this particular bend of the Shannon. These findings, coupled with the untested potential for further cremations at the site, set up the tantalising possibility that Hermitage could once have been a hunter-gatherer cremation cemetery. This would be unprecedented within the European archaeological record, offering a wealth of knowledge concerning the human societies who first inhabited the Westernmost parts of Europe.
H|A|R|P

In 2016, a team of researchers from Ireland and Britain met with the original excavators of the site to discuss the possibility of further archaeological investigations at Hermitage. The meeting involved discussion of the site’s research potential, current challenges in understanding the archaeology of Hermitage, and a site visit and talk for the local historical association (Figure 5). The meeting was attended by a small group of researchers including experts in the analysis of cremated human remains, prehistoric material culture, the Mesolithic in Ireland, Prehistoric Cultural Heritage Management, and the use of remote sensing in the investigation of Early Prehistoric landscapes. This meeting resulted in the formation of the Hermitage Archaeological Research Project (H|A|R|P), and the development of a series of research questions which the project will address through further fieldwork at Hermitage:

1. What is the potential for further excavations at Hermitage?
2. What is the extent of the in situ archaeology at Hermitage?
3. What further burial evidence survives within the Hermitage landscape?
4. Which landscape formation processes have allowed for the survival of the archaeology?
5. Are geoarchaeological processes at the site sealing deposits with high archaeological and/or palaeoenvironmental potential?

With funding provided by the Royal Irish Academy, H|A|R|P set about attempting to address these research questions through an initial geophysics and auger survey of the Hermitage site (Figure 6). This included employing a multi-technique approach specifically geared towards mapping and understanding the sediment sequences and landscape formation processes active at the site; methods used included fluxgate gradiometry, electrical conductivity and magnetic susceptibility. Survey work at other high-profile prehistoric sites in Britain and Ireland has established these methods as highly effective in developing a coherent picture of deposition and truncation at the landscape scale. Desktop research and a conductivity survey identified interesting geomorphological features at the site; augering, undertaken alongside the geophysical survey, aimed to test the geoarchaeological potential of these features. This focussed on areas of aquatic deposits, adjacent to the Shannon itself, and transects spanning the area of the 2001 excavation. Auger work identified potential areas for sampling.
Examination of these samples will form the basis for further investigation including palaeoenvironmental analysis and test pitting of geophysical anomalies to ground truth emerging models of deposition and landscape formation.

Figure captions

Figure 1. Map showing the location of Hermitage
Figure 2. Reconstruction illustration of Burial Pit A cremation burial, showing the polished stone adze, cremation deposit and what was probably a wooden post grave marker
Figure 3. Well-cremated remains of complete adult, Burial Pit A (after Little et al. 2016)
Figure 4. Polished adze from Burial Pit A. Microwear analysis revealed the working edge was deliberately blunted prior to deposition (after Little et al 2016).
Figure 5. H|A|R|P member, Graeme Warren (centre left), talking to visitors from the local Castleconnell community at the location of one of the burials.
Figure 6. From left to right: H|A|R|P team members Ben Elliott and Ed Blinkhorn (UCL) with Helen Goodchild (University of York) carrying out field survey in 2018.

References


