

## CONSERVATION TREATMENT RECORD

Lab number: 8429  
 Brief description: Cu Alloy Fitting  
 Name of owner: M. Millet, Thwing Archaeological Project  
 Owner's number: Th07 Small Find 176

Name of student: Robyn Haynie  
 Date allocated: 06/02/2009  
 Date completed: 03/06/2009

<b>Material type</b> The fitting is made from a copper alloy. The metal is less than 1mm thick.	<b>Dimensions</b> Length: 4.2cm Width: 3.8cm Weight Before: 2.3g After: 2.1g
<b>Technology</b> The fitting was likely hammered flat and then stamped with a circular decoration.	
<b>Pre-treatment condition</b> The fitting was corroded with dirt and soil on the surface. It had been scratched down to bright metal in a few areas, and had many splits and small areas of loss throughout the fitting. There was one particularly large, stable crack between the bottom two pressed circles, and the metal was folded at the corners.	
<b>Significance</b> The brooch was excavated at Thwing, a Roman settlement in East Yorkshire. Artefacts from the first and second centuries AD have been found on the site, as well as a stone house dating to the late second or early third century AD. Although the object's original function is not clear, it was likely a decorative embellishment.	
<b>Examination</b> The fitting was examined by optical microscopy. <b>Tests / analysis</b> The fitting was analysed using x-ray fluorescence spectroscopy.	
<b>Justification for treatment</b> Treatment was undertaken in order to remove dirt and soil remaining from burial, as well as to remove disfiguring corrosion in order to enable further study of the object as part of the Thwing Archaeological Project finds. Because of the colour of the exposed metal may lead to further investigation, the object was not given a protective surface coating.	
<b>Cleaning</b> Initially the object was submerged in industrial methylated spirits and cleaned using a soft brush. This was followed by careful mechanical cleaning under the microscope using a bamboo stick and a scalpel.	
<b>Stabilisation</b> N/A	
<b>Reconstruction / repair</b> N/A	
<b>Loss compensation</b> N/A	
<b>Other</b>	
<b>Packaging</b> The object was packaged in an inert plastic box with supportive foam for transport back to the owner and future	

<p>storage. No silica gel was included as it is unlikely that it would be monitored or changed following the return of the object.</p>	
<p><b>Condition after treatment</b>  The object is in stable condition, and the excess soil and dirt has been removed from the surface. The surface has been cleaned down to a stable corrosion layer, and the decoration is more visible.</p>	
<p><b>Student evaluation of treatment</b>  The cleaning was successful in removing the obscuring elements and emphasizing the decoration and surface detail on the object. The corrosion layer was uneven throughout the surface of the object, and unfortunately a small amount of underlying bright metal was exposed during treatment.</p>	
<p><b>Recommendations for further care</b>  The object should be examined periodically for further corrosion. Although the object is stable, care should be taken when handling the object to prevent further folding or cracking of the metal.</p>	
<p><b>Photography / other illustrations</b>  <i>Colour slides/ prints enclosed</i></p>	<p><b>Other documentation</b> (analytical, object report, etc)  XRF data enclosed</p>
<p><b>Student signature</b></p>	<p><b>Date</b></p>
<p><b>Staff signature</b></p>	<p><b>Date</b></p>

Before Treatment



\nAfter Treatment

