**Preservation Lab - Examination and Treatment Report**

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<th>Database ID</th>
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<td>1201</td>
<td>246</td>
<td>i23125032</td>
<td>9/6/2016</td>
<td>Catarina Figueirinhas supervised by Ashleigh</td>
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**Department**  
PLCH

**Call Number**  
378.77199 qOCQ v.1 1902

**Date Returned to Origin**

**Title**  
The aethlidian

**Author**  
Ohio College of Dental Surgery (Cincinnati, Ohio)

**DESCRIPTION:**

**General Remarks**

This is a yearbook published by the Students of Ohio College of Dental Surgery, Department of the University of Cincinnati in 1902.

**Binding**

The binding is covered with two different colored cloths. This is a red quarter cloth covered binding with black cloth-covered boards. The red cloth covers the spine to almost the middle of the boards. The edge where the cloths meet is gilt on the upper cover and the title is stamped in gold. The spine has no title.

**Textblock**

The text block is composed of ten gatherings. There are six sewing stations sewn through the fold with an all-along unsupported stitch.

**Primary Support**

The paper is a thin, light beige clay-coated paper.

**Medium**

Black printed ink and halftone printed photographs. There is a handwritten black ink inscription located on the flyleaf that reads “Nora Savage? Brooks/May 8th 1902”.

**Attachments | Inserts**

There are several pressure sensitive library stickers, including a barcode and department sticker, adhered on the lower cover. There is a pressure sensitive call number sticker on the lower area of the spine. On the front endsheet, there is a black ink inscription that reads “Nora Savage? Brooks/ May 8th 1902”.

**Housing**

Buckram cloth covered clamshell box with black fore edge ties

**CONDITION:**

**Summary**

Overall, the book is in poor condition from having suffered from water damage. In addition to extensive water damage, the text block is completely separated from the binding.

**Binding**
The binding is in poor condition and is coated in a heavy layer of grime. Both upper and lower covers have colorant tide line stains from water damage, mostly along the edges and spine. Both covering cloths have faded over time possibly from water damage.

The upper cover has several circular black stains along the spine. On the top left corner there is water spotting where the cloth color has faded. The top right corner of the upper cover cloth is worn and starting to unravel. The headcap has a small loss. The bottom cap is worn and has small cloth tears. Several letters of the stamped title have lost gold gilding. The edges of the cloth upper cover are abraded.

A chunk of the lower cover board contains a large loss along the top edge close to the spine. It is possible that this loss was caused by a pest such as a rodent. The red cloth has faded along the outer joint. The outer joint is splitting. As a result, the binding contains cloth losses in the middle of the joint.

**Textblock**

Overall, the text block is in poor condition. It is completely separated from the binding and it has suffered extensive water damage. The entire text block contains tide line staining. The sewing is broken throughout. The spine lining is brittle and is fully detached. The pastedowns are stained red from the red cloth that bled once it was damaged by water.

**Primary Support**

The text block clay coated paper has adhered to itself when it dried after becoming wet. Several pages contain significant paper damage from sticking to the adjacent page and from being pulled apart in order to be read. This resulted in delaminated, torn, and lifted paper that obscure the text and imagery throughout the first three gatherings. The front flyleaf contains two significant paper losses and a large tear.

**Medium**

The black printed ink is liable to lifting due to the paper’s clay coating that is unstable in the presence of water.

**Housing**

**Cloth clamshell**

**Housing Narrative**

The cloth covered clamshell is in good condition. The cloth used to cover the trays of the box has slightly faded over time. Since the enclosure doesn’t show any visible signs of water damage, it seems that this book was placed in a protective enclosure after it suffered water damage, likely due to its fragile state.

**Attachments | Inserts**

The library stickers are in great condition. However the adhesive on the stickers might stain the cloth underneath.

**Previous Treatment**

There are no visible signs of previous treatments.

**Materials Analysis**

Using a water pen and a Casselli spatula, a delaminating small fragment attached to the previous page was tested to determine if it would be possible to remove the fragment without losing the clay coating or the printed ink. It was concluded that it was possible to remove the delaminating fragments, however some minor loss occurred.

**TREATMENT:**

**Proposal**

1. Dry surface clean the text block to remove loose surface dirt and to prevent dirt from becoming ingrained in the paper during wet treatment.
2. Attempt to remove and replace delaminated areas of paper to improve reading legibility.
3. Mend and guard the gathering folios to repair tears and breaks along the folds.

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Tuesday, January 10, 2017

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HAMILTON COUNTY AND THE UNIVERSITY OF CINCINNATI LIBRARIES

Page 2
4. Re-sew the text block in a pattern sympathetic to the original sewing.
5. Line the text block spine with appropriate cloth and paper spine linings.
6. Repair the broken cloth joints in the cover.
7. Recase the repaired cover to text block.

**Housing Need**

**Factors Influencing Treatment**

The delaminated areas will be removed and replaced in order to improve the legibility of the book. The textblock is detached from the cover and the gatherings are loose since the sewing is broken. In the existing condition this book cannot be handled without suffering further damage. A stabilization treatment will be conducted to improve readability and in order to allow scholars to handle this book in one piece.

**Performed Treatment**

1. Overall, the textblock was dry surface cleaned with an Absorbene smoke sponge to prevent the superficial dirt from becoming ingrained into the paper. The flyleaves and pastedowns were locally surface cleaned with a vinyl eraser block in areas that contained a heavier superficial layer of dirt and grime. [CF, 4 hrs].
2. The delaminated areas throughout the textblock were locally humidified with a water pen and mechanically removed with a Casselli spatula as much as possible without causing further imagery loss. Once these fragments of paper were lifted, they were adhered down in their original placement with Zen Shofu wheat starch paste. [CF, 9 hrs].
3. The original sewing was broken throughout the textblock. In preparation for re-sewing, the textblock was mended. Small tears along the edges were mended with untoned Tengujo tissue and wheat starch paste. The inner and outer folio of each gathering was guarded with an Usu Mino tissue guard and wheat starch paste. [CF, 8 hrs]. The loose front endsheet was hinged onto the first gathering with an untoned Tengujo tissue hinge and wheat starch paste. [CF, 0.25 hrs].
4. In preparation for sewing, a free Usu Mino tissue guard was placed around the first and last gatherings to provide more support for future board attachment. The text block was sewn with a French link stitch using a 25/3 linen thread. The original sewing holes were used, and two wide linen tapes were used as a sewing supports. [CF, 0.90 hrs].
5. Once the text block was sewn, the spine was rounded with a backing hammer and wheat starch paste. Following rounding, the spine was lined with a reversible layer of Usu Mino tissue and wheat starch paste. The reversible lining was extended one inch longer on each side of the spine, creating flanges to use as a board attachment. Next, the spine was lined with a Dove Gray buffered paper and wheat starch paste. [CF, 0.75 hrs].
6. Once the textblock treatment was complete, the pastedowns were mechanically lifted with a Casselli spatula in preparation for the attachment of the textblock to the cover. [CF, 0.35]. To maintain the original composition of the textblock, the detached back flyleaf was reattached to the pastedown (rather than to the spine of the textblock) using an interior Usu Mino tissue repair and wheat starch paste. This attachment was reinforced with an Tengujo tissue v-hinge on the front. Wheat starch paste was used to adhere the v-hinge. [CF, 0.35].
7. While the binding was detached from the textblock, small losses in the spine cloth were repaired on the inside of the spine with toned Usu Mino tissue and wheat starch paste. The Usu Mino tissue was previously toned with Golden and Liquitex Acrylics to match the color of the original spine cloth. [CF, 1.75]. The endcaps were also repaired with the same toned Usu Mino tissue, linen thread and wheat starch paste. [CF, 0.60 hrs].
8. The front pastedown was locally humidified and wet with a water pen to reduce cockled areas along the fore-edge. This area was dried under a small pressing stack and weights. [CF, 0.5 hrs].
9. The loss on the front endsheet was filled with untoned Usu Mino tissue on the front and reinforced on the back with an untoned Tengujo tissue and wheat starch paste. [CF, 0.60 hrs].
10. In preparation for the attachment of the textblock to the cover, the sewing supports (linen tapes) were laminated in between the free guard flanges and the reversible spine lining flanges with wheat starch paste. By laminating these three structural components together, a strong flange on either side was constructed and used for the attachment of the textblock to the cover. The textblock was adhered to the cover by placing the
laminated flange under the pastedown and adhering it to the cover boards. A 1:1 mixture of Jade 403 PVA and wheat starch paste was used. [AS, 0.35]. The lifted pastedowns were adhered down to the boards with wheat starch paste once the flanges were secure and dry. [CF, 0.25 hrs].

11. A Tengujo tissue v-hinge was adhered with wheat starch on the inner joints, reinforcing the textblock attachment to the cover. [CF, 0.35 hrs].

12. The repeated page 10 was encapsulated in a protective polyester L-sleeve and housed with the object in the original enclosure. [CF, 0.15 hrs].

**Housing Provided**

**Housing Narrative**
The book was housed in its original enclosure, a cloth covered clamshell box.

**Storage Recommendations and Handling notes**
This book should be handled with care since some of the pages are fragile. The encapsulated sheet should not be removed from its encapsulation since it is very fragile.

**TOTAL Treatment Time**
28 hrs
Before treatment, open to show break, loose page, and inscription

After treatment, paper mends and repeated page 10 stored in L-sleeve

Before treatment

After treatment

Before treatment

After treatment

Before treatment

After treatment

The Preservation Lab

Treatment Report Cont'd

thepreservationlab.org

Treatment Photography by: Jessica Ebert
i23125032_1201_A07N - Before treatment

i23125032_1201_D07N - After treatment