Ancient Monuments Laboratory Report 56/97

WALL PAINTING CONDITION AUDIT, UPNOR CASTLE, KENT

J Davies S Stewart

AML reports are interim reports which make available the results of specialist investigations in advance of full publication. They are not subject to external refereeing and their conclusions may sometimes have to be modified in the light of archaeological information that was not available at the time of the investigation. Readers are therefore asked to consult the author before citing the report in any publication and to consult the final excavation report when available.

Opinions expressed in AML reports are those of the author and are not necessarily those of the Historic Buildings and Monuments Commission for England.

Ancient Monuments Laboratory Report 56/97

# WALL PAINTING CONDITION AUDIT, UPNOR CASTLE, KENT

J Davies S Stewart

#### Summary

This condition audit of wall paintings at Upnor Castle includes a wall painting record, general audit information, documentation of original materials and execution of the painting, and deterioration and damage including previously used materials and treatment, as well as proposals for treatment and monitoring strategies.

Authors' addresses :-

Ms J Davies
PAINTINGS CONSERVATION STUDIO
English Heritage
Inner Circle Regents Park
London
NW1 4PA

Ms S Stewart
PAINTINGS CONSERVATION STUDIO
English Heritage
Inner Circle Regents Park
London
NW1 4PA



### Upnor Castle Kent

The following report has been generated by the Wall Painting Section database. This archival system provides a computerised record of all wall paintings in English Heritage Historic Properties and is intended to comprehensively document the collection. Each report has been subdivided into four sections to present the data in a clear format. These include:

#### 1 Wall Painting Record:

Includes a description of the site and paintings, as well as archival information, such as bibliographic references and photographic records.

#### 2 General Audit Information:

Describes any monitoring undertaken and a synopsis of future conservation requirements.

#### 3 Technique:

Documents the nature and condition of the original materials and execution of the painting which is described according to its stratigraphy and any related analysis.

#### 4 Deterioration and damage, added materials, treatment:

Deterioration and damage lists the types of alterations which may have occurred, that is either deterioration (natural alterations such as cracking or delamination) or mechanical damage (such as graffiti).

Added Materials documents all non-original materials present on or within a painting. These may include naturally occurring substances (accretions, such as dirt and dust) or deliberately added materials (coatings, coverings and repairs).

Treatment documents previous interventions and proposed treatment and monitoring strategies.

Throughout each section, an area of painting is assigned a number between 1 and 4 which is intended as a general indication of present condition. These are: 1 good, 2 fair, 3 poor, 4 unacceptable.

This report is based on information gathered prior to March 1996 and does not include any changes in condition, further research or treatment undertaken after this date. Amended editions will be produced as necessary.

# Contents

- 1 Guard-room, second floor
- 2 Clock-room, second floor



Second floor, Guardroom

## 1 Wall Painting Record

Property name

**UPNOR CASTLE** 

Region

South East

County Kent

Location of painting

Guard-room, 2nd floor

Orientation

NORTH, EAST, WEST, SOUTH.

Century 17th

Date

1601

Height (cm) 250

Width (cm) 1000

Subjects included

Various decorative motifs

#### Description

In 1560 Queen Elizabeth and the Privy Council ordered a Bulwark built at Upnor. The building was designed by Sir Richard Lee and the building accounts, kept by Richard Watts, still exist. Between 1599-1601 enlargements and additions including the construction of a defensive ditch, timber palisade, drawbridge and gatehouse, which contains the guard-room, were undertaken under the direction of Sir John Leveson. In 1653 a fire in the gatehouse destroyed five soldier's rooms and scorched the stonework of the first floor walls. Subsequently the Govenor of the castle petitioned the Admiralty for the repair of the gatehouse, and repairs and additions were undertaken, including the heightening of the gatehouse. The Dutch raid of 1667 lead to a revision of coastal defences, with new forts downstream at Gillingham Fort and Cockham Wood. These reduced Upnor's strategic importance, and in 1668 Upnor was converted into 'a Place of Stores and Magazine', which supplied munitions to the navy. In 1718 new barracks were built to the south west of the castle. The South Tower was allowed to the Govenor as private quarters. However it was never occupied, due to the poor condition of the building. In c.1809 the clock was installed in the gatehouse. In 1827 Upnor ceased to be a magazine and was fitted up as an Ordnance Laboratory, and by 1840 no gunpowder or explosives were stored in the castle. In 1891 Upnor was transferred from the War Office to the Admiralty. In 1945 the castle was recognised as a museum and by 1961 the castle was maintained as a national monument.

The painted decoration within this room is comprised of black band, geometric and strapwork 'stencil' pattern. Originally it is likely to have extended over the entire wall surface, but is now lost on the north wall, with the remainder limewashed over. Small areas of the design are visible within the fireplace and on the chimney breast. In the late 1940's two sections of the decoration were uncovered, one on the south wall, and the other to the left of the fireplace but both have unfortunately been waxed. The dimensions given are those of the wall height and the continuous length of walls.

#### Photographic Record

29/6/94 EH 'current' contact photo files; no images of wall paintings.

DOE negative search:

Upnor Castle; no relevant DOE negatives found.

#### Bibliography

B.H. O'Neil and S. Evans, 'Upnor Castle, Kent', Archaeologia Cantiana, 65, (1952), 1-11.

F.W. Reader, 'Tudor domestic wall-paintings', Part 1, Archaeological Journal, 92, 1935.

A.D. Saunders, Upnor Castle, Kent, EH guidebook, HMSO, 1967.

### 2 General Audit Information

Property name

**UPNOR CASTLE** 

County Kent

Region

South East

Location

Guard-room, 2nd floor

Orientation

NORTH, EAST, WEST, SOUTH.

Century 17th

1601

Height (cm) 250

Width (cm) 1000

Auditor(s)

Date SS/JD

Start date 20/06/94

Overall condition score

3

#### Recommendations

The condition of the plaster varies. Much is reasonably sound, but there are fragile areas particularly below the window and on the chimney breast. An overall treatment programme is therefore required. This should include: removal and replacement of unsuitable cement edging repairs; flake fixing and surface cleaning. Testing should also be undertaken to assess the feasibility of reducing areas of wax coating which is contributing to flaking. [Timescale: 2 conservators, 3 weeks within 3 years].

In addition it is highly likely that extensive areas of original decoration could be uncovered. This would be a desirable intervention in terms of protecting the decoration from accidental damage and would also allow an overall assessment of the condition of the decoration throughout the room. A testing phase should therefore be made to ascertain the most suitable uncovering methods and materials and from which to assess the time required [Timescale: 1 conservator: 1 week].

It is understood that the responsibility for the care of the building is to be passed to the City of Rochester.

# 3 Audit Information: Technique

Property name

UPNOR CASTLE

Region

South East

County

Kent

Location

Guard-room, 2nd floor

Orientation

NORTH, EAST, WEST, SOUTH.

Century 17th

Date

1601 Height (cm)250

Width (cm) 1000

Auditor(s)

SS/JD

Start date 20/06/94

**Overall Condition Score** 

3

Stratigraphy Layer type

Support Layer

Specific condition Score

2

**Thickness** 

Comments

Timber (roughly sawn), stone and brick are the support materials. Chisel marks are visible in the stonework.

Layer type

Render Layer 1

**Specific condition Score** 

**Thickness** 

Comments

Lime/sand/hair plaster render, thickness unknown. Charcoal inclusions were noted.

Layer type

**Ground Layer 1** 

**Specific condition Score** 

**Thickness** 

Comments

There appears to be a limewash ground.

Layer type

Paint Layer 1

**Specific condition Score** 

3

**Thickness** 

Comments

Black pigment, thinly applied.

Identified pigments Colours

CHARCOAL

BLACK

# 4 Audit Information: deterioration and damage, added materials, treatment

Property name

UPNOR CASTLE

Region

South East

County

Kent

Location

Guard-room, 2nd floor

Orientation

NORTH, EAST, WEST, SOUTH.

Century 17th

Date

1601

Height (cm) 250

Width (cm) 1000

#### **DETERIORATION AND DAMAGE**

#### **Deterioration phenomena**

Type

delamination (paint layer)

Location

General

Comments Flaking of the paint layer is being accelerated by the presence of the wax coating.

Type

delamination (render layer)

Location

Extensive, particularly noticeable above fireplace.

Comments Hollow patches and fragile areas were noted.

Type

flaking

Location

Throughout

Comments Areas of overlying limewash are flaking.

#### Mechanical damage

Type

cracking/fracturing

Location

General, in particular to south east corner.

Comments Cracking of the plaster has occured.

#### **ADDED MATERIALS**

#### **Accretions**

Type

dust

Location

General

Comments Some surface dust is present.

#### Coatings/Coverings

Type

wax

Location

Exposed decoration.

Comments Many areas are very heavily waxed, 1-2 mm. The wax is now very discoloured.

Lower areas are begining to flake.

Type

limewash

Location

Throughout.

Comments

#### Repairs

Type

cement

Location

General

Comments Edging repairs have been carried out using hard unsuitable cement mortar.

Type

cement

Location

Ceiling

Comments Ceiling has been replaced with a cement render (?).

#### TREATMENT

#### Past Treatment

Person

Type APPLICATION OF COATING Date 01/04/49

Person Charles Mitchell and Charles Robinson

Comments Wax 'preservative' has been applied to exposed areas of decoration. As the

practice of waxing paintings generally ceased after 1953 it seems likely that the

paintings were waxed soon after they were uncovered in 1949.

Type UNCOVERING Date 01/04/49

Charles Mitchell and Michael Robinson

Comments Attribution of work to Mitchell and Robinson is based on a hand written note by

C.B. in site file.

Proposed Treatment

Type CLEANING Date 20/06/94

Person SS/JD

Comments Surface cleaning is required.

Type FILLS/REPAIRS INSERTION Date 20/06/94

Person SS/JD

Comments Replacement of unsuitable repairs should be considered.

Type FILLS/REPAIRS REMOVAL Date 20/06/94

Person SS/JD

Comments Unsuitable repairs should be removed as necessary.

Type FLAKE FIXING Date 20/06/94

Person SS/JD

Comments Flake fixing is urgently required in waxed areas.

Type GROUTING Date 20/06/94

Person SS/JD

Comments Grouting of hollow areas should be considered.

Type TESTING Date 20/06/94

Person SS/JD

Comments Testing to ascertain the feasibility/desirability of reducing the wax should be

undertaken as part of an overall treatment programme.

Type UNCOVERING Date 20/06/94

Person SS/JD

Comments Further areas of decorative painting may be present below limewash layers.

.

( )

*i* :

{ :

( )

( )

( )

ί.

(\_:

## 1 Wall Painting Record

Property name

**UPNOR CASTLE** 

Region

South East

County Kent

Location of painting

Clock-room, 2nd floor

Orientation

NORTH-EAST CORNER

Century 17th

\_\_\_\_\_\_

Date

Height (cm) 50

Width (cm) 50

Subjects included

Ship

#### Description

In 1560 Queen Elizabeth and the Privy Council ordered a Bulwark built at Upnor. The building was designed by Sir Richard Lee and the building accounts, kept by Richard Watts, still exist. Between 1599-1601 enlargements and additions including the construction of a defensive ditch, timber palisade, drawbridge and gatehouse, which contains the guard-room, were undertaken under the direction of Sir John Leveson. In 1653 a fire in the gatehouse destroyed five soldier's rooms and scorched the stonework of the first floor walls. Subsequently the Govenor of the castle petitioned the Admiralty for the repair of the gatehouse, and repairs and additions were undertaken, including the heightening of the gatehouse. The Dutch raid of 1667 lead to a revision of coastal defences, with new forts downstream at Gillingham Fort and Cockham Wood. These reduced Upnor's strategic importance, and in 1668 Upnor was converted into 'a Place of Stores and Magazine', which supplied munitions to the navy. In 1718 new barracks were built to the south west of the castle. The South Tower was allowed to the Govenor as private quarters. However it was never occupied, due to the poor condition of the building. In c.1809 the clock was installed in the gatehouse. In 1827 Upnor ceased to be a magazine and was fitted up as an Ordnance Laboratory, and by 1840 no gunpowder or explosives were stored in the castle. In 1891 Upnor was transferred from the War Office to the Admiralty. In 1945 the castle was recognised as a museum and by 1961 the castle was maintained as a national monument.

The castle was damaged by bombing in 1941 which disturbed the plaster on the archway in the South Tower, revealing two dates and two initials incised into the stone. The painting was also discoverd at this time [Archaeologia Cantiana, p.8] and depicts a ship, sketched in red directly on the plaster background.

The painting was examined (and possibly fully uncovered and treated) in April 1949 by Charles Mitchell of the Warburg Institute and Michael Robinson of the National Maritime Museum who describe the decoration as follows:

'There is a quite clear spritsail topmast which could not appear in big ships after 1720. The curved shape of the head would pass for anything after 1660. There is one obscurity. The figurehead has the appearance of the fiddle head type which means a date about 1800. In the late seventeenth or early eighteenth century there would have been a lion figurehead, but this is a crude drawing and what looks like a fiddle head is very probably shorthand for a lion figurehead. There is one other explanation, namely, that this is a consciously archaic but inaccurate drawing of an older ship drawn by a man who lived in the days of the fiddle head, but that is a remote and unlikely possibility. The spritsail topmast would have passed from the memory of most practical seamen by 1800. We incline to date the drawing about 1700'.

[From Archaeologia Cantiana, p.8].

#### Photographic Record

29/6/94 EH 'current' contact photo files; no images of wall paintings.

#### Bibliography

B.H. O'Neil and S. Evans, Upnor Castle, Kent, Archaeologia Cantiana, 65, (1952), 1-11.

A.D. Saunders, Upnor Castle, Kent, EH guidebook, HMSO, 1967.

### 2 General Audit Information

Property name

**UPNOR CASTLE** 

County Kent

Region

South East

Location

Clock-room, 2nd floor

Orientation

**NORTH-EAST CORNER** 

Century 17th

Date

Height (cm)50

Width (cm) 50

Auditor(s)

CB/SS/JD

Start date 07/01/94

Overall condition score

3

#### Recommendations

A full condition survey could not be undertaken due to the presence of the glass cover. However, it is clear that the painting has undergone considerable deterioration. A general programme of treatment is therefore necessary, subject to a full condition survey after the removal of the cover. This should include flake fixing, stabilisation of plaster as necessary, possibly removal and insertion of repairs, as well as cleaning tests to assess the feasibility/desirability of cleaning to remove wax [Timescale: 2 conservators, 3 weeks, within 2 years]. In addition the painting should be photographed, and the condition recorded and monitored at regular intervals.

Not only is the cover unsightly but it can also be presumed to be creating an adverse micro-climate in direct contact with the painting. However, it may also be protecting the painting from inadvertent mechanical damage. A programme of conservation should therefore consider modifying the existing cover, for example by providing increased ventilation and/or increasing the gap between the glass and the surface of the painting.

It is understood that the responsibility for the care of the building is to be passed to the City of Rochester.

# 3 Audit Information: Technique

Property name

**UPNOR CASTLE** 

Region

South East

County

Kent

Location

Clock-room, 2nd floor

Orientation

NORTH-EAST CORNER

Century 17th

Date

Height (cm) 50

Width (cm) 50

Auditor(s)

CB/SS/JD

Start date 07/01/94

**Overall Condition Score** 

3

<u>Stratigraphy</u>

Layer type

Support Layer

**Specific condition Score** 

2

**Thickness** 

20 cm

Comments

Support layer is not visible, however it appears to be of the same type as in the adjacent garderobe.

Layer type

Render Layer 1

Specific condition Score

3

Thickness

Comments

Appears to be a lime/hair plaster.

Layer type

Paint Layer 1

**Specific condition Score** 

3

**Thickness** 

Comments

The painting is lightly sketched in red directly on the plaster render layer.

Identified pigments Colours

red

Page 1 of 1

# 4 Audit Information: deterioration and damage, added materials, treatment

Property name

**UPNOR CASTLE** 

Region

South East

County Kent

Location

Clock-room, 2nd floor

Orientation

**NORTH-EAST CORNER** 

Century 17th

Date

Height (cm) 50

Width (cm) 50

#### **DETERIORATION AND DAMAGE**

#### **Deterioration phenomena**

Type

flaking

Location

General

Comments Flaking is exacerbated by the wax coating which has also darkened considerably.

#### Mechanical damage

Type

nail holes

Location

Wooded frame area

Comments A glazed wooded frame has been bolted over the painting.

Type

cracking/fracturing

Location

Repairs

Comments Repairs have been made to plaster adjacent to the painting. These are now

cracked and in a fairly poor state.

### **ADDED MATERIALS**

### Coatings/Coverings

Type

wax

Location

general

Comments Wax was probably applied by Mitchell and Robinson during 1949.

#### Repairs

Туре

modern plaster

Location

adjacent to painting

Comments Repairs have been made to adjacent plaster. These are now cracked and appear

to be in a poor state.

#### **TREATMENT**

#### Past Treatment

Type

APPLICATION OF COATING

Date

01/04/49

Person

Charles Mitchell and Michael Robinson

Comments The painting appears to be waxed.

Type

UNCOVERING

Date

01/04/49

Person

Charles Mitchell and Michael Robinson

Comments

#### **Proposed Treatment**

Type

FILLS/REPAIRS INSERTION

Date

01/04/92

Person

Comments Removal and replacement of unsuitable and unstable repairs should be

considered as part of an overall treatment programme. The plaster may also

require further stabilisation.

Type

FILLS/REPAIRS REMOVAL

Date

01/04/92

Person

CB

Comments Removal and replacement of unsuitable and unstable repairs should be

considered as part of an overall treatment programme.

Type

**FLAKE FIXING** 

Date

01/04/92

Person

CB

Comments Fixing should be included in an overall treatment programme subject to testing.

Type

MONITORING CONDITION

**Date** 

01/04/92

Person

CB

Comments Regular inspections are required.

Type

RECORDING AND DOCUMENTATION Date

01/04/92

Person

Comments The glass cover should be removed and a thorough condition survey undertaken

prior to an overall treatment programme.

Type

**TESTING** 

Date

01/04/92

Person

Comments Testing to ascertain the feasibility/desirability of reducing the wax should be

undertaken as part of an overall treatment programme.