# RTI Recording of headstones at St Michael's and all Angels Churchyard, Lyndhurst

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August 2019



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#### Introduction

In July 2019, Archaeovision undertook a Reflectance Transformation Imaging (RTI) survey of a number of headstones that were buried in a horizontal position within a closed footpath of the St Michael's and all Angels Churchyard in Lyndhurst.

The purpose of the recording was to provide high resolution datasets of the headstones. With RTI the inscriptions of the headstones become more legible and provide the possibility of identifying the names and other details found inscribed on the surface of theses monuments.

Reflectance Transformation Imaging is a photographic technique that enables the extraction of subtle surface differences using a system of raking lights. The method was created by Tom Malzbender from Hewlett Packard Laboratories in 2001 (Malzbender et al., 2001) and was intended to provide a new form of texture mapping that produces increased photorealism in three-dimensional reconstruction textures. The method has since proved successful in cultural heritage studies in providing enhanced understandings of surface detail that are hard to understand through visual examination (discussed below). Malzbender originally created a mathematical algorithm known as Polynomial Texture Mapping (PTM) and the method has since expanded to include a number of different algorithms, under the terminology of RTI (Mudge et al., 2006), to allow for different surface features to be extracted. The most common processing tool still used is PTM.

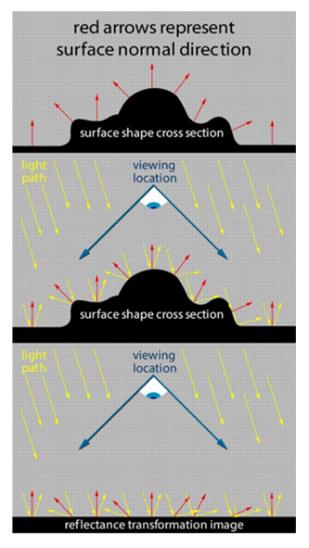
The first examination of heritage based RTI was undertaken by Malzbender et al. (2001) whereby writing tablets and funerary statuary were examined. Mudge et al. (2006) expanded on this by introducing the method to rock art studies. Both studies proved that the method is a suitable tool for non-contact-based recording and provides a clear understanding of 3D shape characteristics. The method was later adopted by the University of Southampton and the University of Oxford in their AHRC RTISAD project (Earl et al., 2011). This was the first major case study for RTI and the team involved examined the potential of the method through the documentation of a number of artefact types that included amphora stamps, paintings, mosaics, coins, graffiti, gravestones, tool and cut marks, pigment details, inscriptions and many more. The method has since strengthened and has expanded to other areas of cultural heritage. These include RTI examinations of forensics (Hamiel and Yoshida, 2007); classical text-based research (Earl et al., 2011); Egyptological examinations (Piquette, 2014); numismatics research (Mudge et al., 2005); rock art engravings (Diaz-Guardamino and Wheatley, 2013); daguerreotypes (Pagi et al., 2017); large statues (Miles et al., 2014); virtual computed tomography datasets (Miles et al., 2016); virtually recorded landscapes (Goskar and Cripps, 2010, Miles, 2016c); and in situ underwater cultural heritage (Selmo et al., 2017).

RTI focuses on the acquisition of images from a fixed position with varying light positions, creating a dataset that captures changing raking light effects. Raking light has been used greatly in the inspection of paintings and objects to gather evidence relating to the relief and surface topography of the material captured (Ruhemann, 1958). The effects of raking light can be seen in day-to-day examinations of landscapes, most notably in the differences seen when landscapes are photographed at different points of the day, with some features been more clearly seen at dawn and dusk, than at high noon. Using low angle light illumination creates strong shadows that enhance the visibility of small topographical changes and is fundamental in how RTI is captured and processed.

The datasets that are produced are an image-based representation of the appearance of a surface under raking light. Digital images are built up of pixels, which are physical points in a raster image that contain red, green, blue and normals of the data captured. Red, Green and Blue refer to the



colour detail, and the normals are objects, such as a line or vector that are perpendicular to a given object, showing the direction of the 3D surface of the data captured. With the light direction captured per normal, through the varying number of images that are taken, these surface normals, per image, can be extracted to calculate how a light will interact with the surface normals using a two-dimensional representation of the data captured. Through this method, these surface normals are combined in an interactive tool, whereby a virtual light can be used in open source software (Cultural Heritage Imaging, 2012) to enable a change of lighting direction on a recorded surface, as demonstrated in the below image. Through this software, enhancements to the image data can be introduced to enable the surface detail to be visible, where it otherwise would not be. A full explanation can be gained through Cultural Heritage Imaging's (2012) website and in Tom Malzbender's (2001) original paper on the subject.



The mathematical calculation of RTI. The first image represents the surface normals of a captured object. The second image represents the direction of the light paths per normal from the external light source for the RTI, per pixel. As the light directions are known per pixel, the RTI software is able to remove the surface shape and calculate how the luminance of a new virtual light will interact with the record features, as shown in the third image. Images sourced from Cultural Heritage Imaging (2012)



Each RTI resembles a single, two-dimensional photographic image. With the introduction of reflectance information, derived from the three-dimensional shape of the recorded subject, each RTI dataset is able to calculate per pixel how light will reflect off the subject. This allows the interactive light to be introduced, to what appears to be a two-dimensional image, creating what is effectively termed as a two-and-half-dimensional dataset. Importantly, the fitted interactive image is not a composite image, rather, each of the original photographs are stored within the file and are displayed when specific views are requested (Pagi et al., 2017, 116). It is through this virtual light and the different rendering modes available, that examinations can take place to extract information from the data that would otherwise be difficult to obtain.

RTI is recorded through two different ways. The first is through a dome setup where each of the individual lights needed in capturing are provided in set known positions. The camera and recorded object are placed in a stationary position, with the processing software applying the set location of the lighting positions to the RTI dataset. An example of this recording setup is shown below and is useful when capturing a number of small items in a single location.



RTI dome capture. The dome was produced during the AHRC funded RTISAD project. The camera can be seen at the top of the dome, with a series of lights highlighted as small spots on the dome surface. The dome is controlled by a laptop, with images captured in sequence, with the individual lights being switched on and off as required.

Photo by Hembo Pagi



The second method, and the one that was used at Lyndhurst Church, is known as highlight RTI and is used when working in areas where the dome is hard to transport, and when the object is larger than the space of the dome. This method follows the same recording approach as before but utilises a reflective ball and an external light source. The reflective ball is placed parallel to the recorded object and a series of images are captured with the external light. As the light position changes, a white mark is highlighted in the reflective ball and this is used to calculate the location and distances of the necessary light positions. As with before, the camera, recorded object, and the reflective ball must remain in the same position. As the calculations that are made are based on the pixel information of the images, any changes in position will affect the displayed results. The highlight method is useful when working on large items and when working whilst on fieldwork, but it takes longer to capture the raw material needed. The camera is always set to allow the external light to be recorded and requires the settings of the camera to remove ambient lighting. Recording outside in the sun is therefore possible but requires an adaption of the recording methodology.

The method works best when recording linear features due to the mathematical algorithms used in the processing. Curved objects can be recorded but difficulties may arise in analysing the data due to the curvature of the surface. Further problems may arise due to additional shadowing, such as a raised edge, introducing unwanted elongated shadows on the surface. In such circumstances, the only shadows that should be included are those from the external light source, and it is best to adapt the recording methodology to focus on key areas. The method is however adaptable and can be used on very small areas, as well large surfaces. An example of the highlight RTI recording setup is shown below



Highlight RTI setup capturing a gravestone at Burley, New Forest, UK. The camera and gravestone are in a stationary position, with the reflective ball found on the left-hand side, parallel to the gravestone. An external light source is then moved in a dome shape around the gravestone and successive images are captured. Photo by James Miles



No real standards exist as to how RTI datasets should be recorded. There exists an outline of the recording method through Historic England's *Multi-light Imaging for Heritage Applications* guidance paper (Co-authored by Archaeovision director Hembo Pagi) but this is now out of date. The recording process changes based on the surface being recorded, as well as the lighting conditions that exist. No set standards can be used as this can change between each dataset recorded.

Each of the datasets that were processed, were produced through the capture of at least sixty 36-megapixel images, providing a very high-resolution dataset to work with. The images have been processed as PTM files, creating a series of files that are around 200MB in size. These PTM files can then be used through open source software to view and analyse the data, and a transcription process is available below per headstone recorded.

#### **Gravestone Locations**

In previous graveyard mapping work undertaken by the *Our Past, Our Future* LPS all of the headstones used in the path had been assigned a unique number in the format LSMAAXXX. It is these numbers that have been used in this document. Using this number it is possible to track the movement of the headstones from the path (**Figure 1**) to their new positions around the graveyard. Alongside the headstones in the path there were a large number of headstones retrieved from the ditch that ran along the southern boundary of the graveyard; these have been assigned new LSMAA numbers.

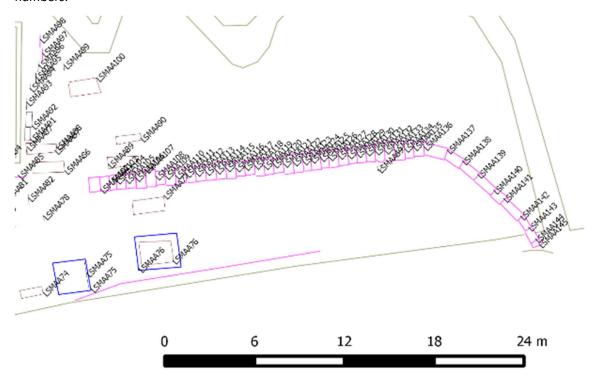
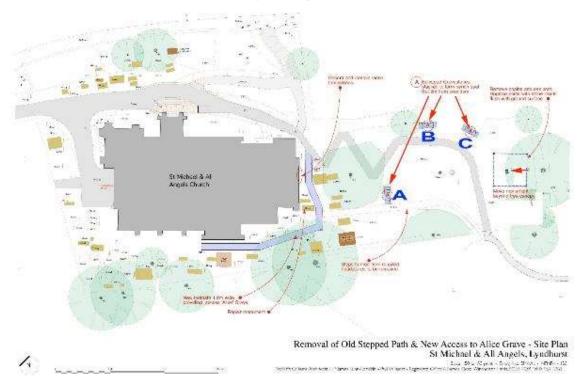


Figure 1: The original location of headstones using LSMAA unique reference number. The pink line running left to right under LSMAA76 is the line of headstones removed from the ditch

The headstones from the path have been repositioned in three locations around the graveyard in the form of wall sections that can be used as benches. By giving each headstone a new position



reference it is possible to track each headstone to its new position if required. The position of the three new benches can be seen in the work plan image:



The new position reference is included in each result page in the format **letternumber.number** which is calculated using the following rules:

- Letter: The three benches have been assigned as A B C as running from west to east. Letters in blue in the above picture.
- Number: Row; the benches are made up of a number of rows with row 1 being the highest and counting downwards.
- Number: Position in row counting from left to right

For example, B3.4 would be Bench B, 3 rows down from highest point and 4 places from the left.



# **RTI Results**

# LSMAA94

New Position: B7.3



Sacred in the memory of



# LSMAA95 New Position:



Sacred in the memory of

Daughter of David

August 10 181

Aged 1 years old





In

Memory of

John Adams

Died May the 19th 1792

Aged 51 Years

A faithful Friend

A hufband Dear

A tender father lieth hear





Memory of
Solomon Bennett
Who died Dec 13<sup>th</sup> 1845
Aged 40 years

Also of Selina
Daughter of
Solomon & Betsey Bennet
Aged 10 Years

And of Louisa Their Daughter Aged 15 years

> Also Betsey Bennet Died Aug 16<sup>th</sup> 1870 Aged 76





In

The memory of
William Plaskett
Who died 21st Feb 1801
Aged 12 Years



#### New Position:



#### Sacred

To the Memory of

William Davis

Who parted this life

July 1st 1850

Aged 80 years

# Also

In memory of

Mary wife of

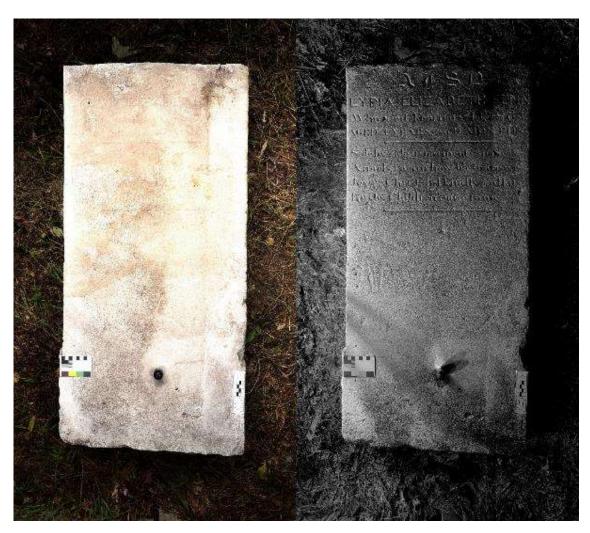
William Davis

Who parted this life

May 12 1881

Aged 70 years





Also

Lydia Elizabeth Fenn

Who died February 13<sup>th</sup> 1780

Aged 1 years 11 months

Side by side in garment ...

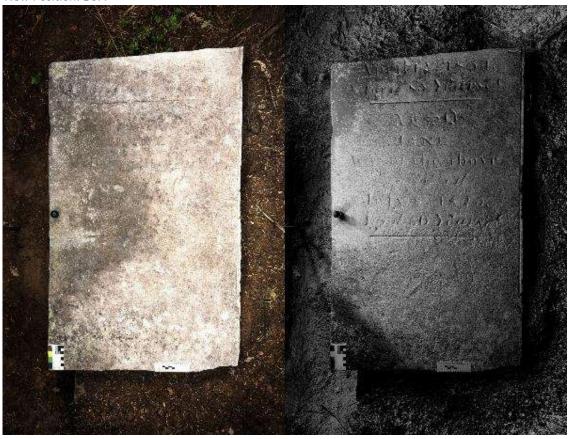
Angel ... in how blast

.....

.....



New Position: B6.4



April 12 1851

Aged 85 years

Also

Jane

Wife of the above

Who died

July 8 1825

Aged 56 years



New Position:



In

Memory of
William Bist
Who departed this life
On the 2<sup>nd</sup> of October 1817
Aged 79 years
Also in memory of
Mary wife of the above
William Bist
Who departed this life
On the 2<sup>nd</sup> July 1817
Behold for old age here we lie
If you are young prepare to die
If you are old prepared be
For quickly you must follow we



New Position: C1.2



Sacred

To the memory of
Mr Joseph Taplin
Of Bank in this Parish
Who died on the
13<sup>th</sup> of February 1811?
Aged 68 years

Also of Lydia
Wife of the above
Who died June 4<sup>th</sup> 1827
Aged 50 years



New Position: C1.4



In

Memory of

Stephen Crook

Who departed this life

September the 19<sup>th</sup> 1821

Aged 62 years

Also

Christiana wife of

Stephen Crook

Who departed this life

September the 27<sup>th</sup> 1832

Aged 71 years



New Position: A7.2



Memory of

William Son of Step

Christianna Crook

Who died 3<sup>rd</sup> March 1811

Aged 20 years

Throw b... a tort and dance the past

By hearens deeree linan chord ....

Also Stephen Their son

Who departed this life

April 22<sup>nd</sup> 1824

Aged 27 years



New Position: C1.5



To the memory of
Thomas White
Of Lyndhurst
Who departed this life
On the 1st day of
January 1830
Aged 69 years
Also
To the memory of Mary
The beloved wife of the above
Thomas White
Who departed this life
On the 13th day of
November 1835
Aged 61 years

Sacred



New Position: C1.3



In memory of

Catherine wife of

Richard

Nightingale

Who departed this life

11th September 1830

Aged 17 years

Also

Of the above named

Richard Nightingale

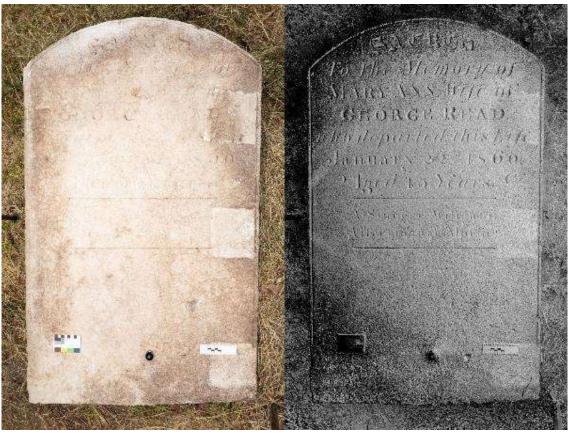
Who died

Feb 18<sup>th</sup> 1817

Aged 61 years



New Position: C2.2



Sacred

To the memory of

Mary Ann wife of

George Read

Who departed thus life

January 22<sup>nd</sup> 1860

Aged 13 years

A sincere wife and Affectionate mother



New Position: B7.4



Sacred

To the memory of

W.. R..y Immby

.... 16 1877/1775

...

....



Sacred

To the memory of

Hanna Cole

Who departed this life

September 25 1850

Aged 82 years



New Position: C2.1



In

Memory of

George?

Who died April? 1865

....

New Position: B2.2



Sacred

To the memory of

Mary Cole daughter of

Hannah Cole

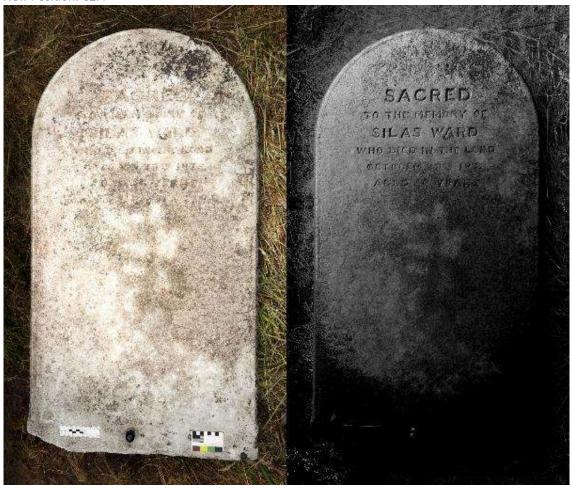
Departed this life

Aug 10<sup>th</sup> 1800

Aged 32 Years



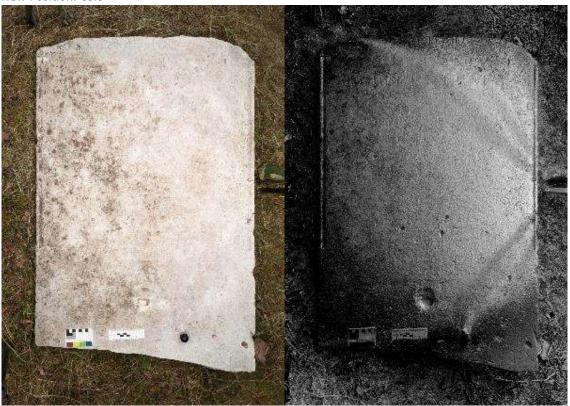
New Position: C2.4



Sacred
To the memory of
Silas ward
Who died in the Lord
October 25 1878
Aged 50 years



New Position: C5.5



Sacred

To the memory of

Bo.. Turner

....



Sacred
To the memory of
Isaac Shelley
Who departed this life
February 1. 1863
Aged .. Years

Also of Sarah
Wife of the above
Issac Shelley
Who departed this life
July .. 1867
Aged .. Years



New Position: C2.5



Sacred
To the memory of
James Golden
Who departed this life
December 3 1850
Aged 71 Years

The Lord .....

•••••

....

Also
To the memory of
Sophia Golden
Widow of the above
Who departed this life
February 8<sup>th</sup> 1867
Aged 78 years



New Position: A2.1



Sacred
To the memory of
Anne Broomfield
Who died
August 6<sup>th</sup> 1818
Aged 13 years

Also
Of Harry John
Broomfield
April 7<sup>th</sup> 1838
Aged 18 years

In death their ....closed Calmly as to a night repose



New Position:



In

Memory of William Holley Who died May 7<sup>th</sup> 1881 Aged 77 years

Also

Henrietta wife of the above Who died January 21<sup>st</sup> 1883

Aged 76 years

Also

Stephen son of the above Who died January 21 1865

Aged 19 years

Also

Percy George

Grandson of the above
Who died March 12<sup>th</sup> 1872
Aged 1 year and 10 months
Thy will be done





Also of the above

Named john Smith

Who departed this life

June 30<sup>th</sup> 1861

Aged 78 years

The souls of the righteous are in the Hand of God and there shall no torment Touch them in the sight of the unwise They seemed to die and their departure Is taken for misery, but they are in ...



New Position:



Sacred

To the memory of

Charles Broomfield

Who departed this life

Sep 27<sup>th</sup> 1865

Aged 72 years



New Position: B2.3



Sacred
To the memory of
Charles Kaplin
Who departed this life
July? .. ..
Aged..
Also of
George Kaplin
...

Also of
H ...
Aged 50 years
Also of Jane Waterman
Sister of the above
Who died in September 1850
Aged 27 years



New Position:



Sacred
To the memory of
James Bright
Who died March 18<sup>th</sup> 1865
Aged 60 years
Behold, he taketh away, who
Can hinder him? Who will say
unto him, what doest thou?
Also Ann Bright
The beloved wife of the above
Who died march 23<sup>rd</sup> 1878
Aged 70 years
God is love ...
Also to
Mary Bright

Who died Aug ...
Aged 15 years
Them also which sleep in Jesus
will God bring with Him



New Position: C4.5



Of Scorton near Catterick
In the county of York
Who departed this life
At Notherwood house
8<sup>th</sup> September 1840
Aged 38 years
Be ye also ready for in such an hour as ye think not the Son of man cometh



New Position: A6.3



Nothing present



New Position: C5.2



Sacred

• • •

Fo.. Wolfe



New Position: C6.4



In

Memory of
George Lowman
Who departed this life
On the 2<sup>nd</sup> day of March
1813 in the 60th
Year of his age



New Position: C6.3



Memory of Eliz Waterman

Who died Nov 1 1811

Aged 59 years

Also of W. Waterman

Husband of the above who died

Oct 25 1832 aged 76 years

Render R .....

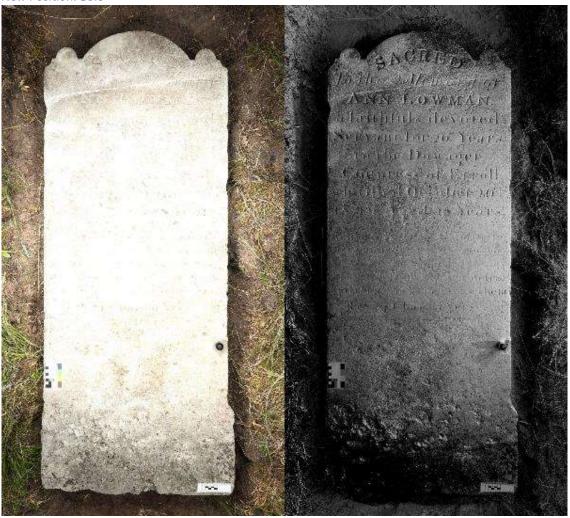
B by...

The day is bursting ...

The ..



New Position: B3.3



Sacred
To the memory of
Ann Lowman
A faithful & devoted
Servant for 26 years
To the dowager
Countess of Erroll
who died October 26
1846, Aged 58 years.

..

.. them Ron .. Chap.. V..





Sacred

To the memory of

John Ives

Who died Jan 2<sup>nd</sup> 1867

Aged ... years



New Position: C4.2



Sacred

To the memory of

Joshua Lambert

••••

•••

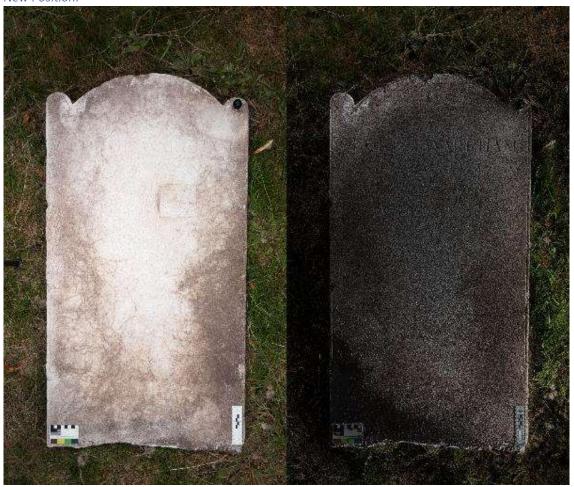
Who departed this life

At 188.?

September



New Position:



То

The memory of George Wareham Who died the 19th Sept 1812 Aged 2 years With pain?

This

..

With

Blessed dear W

In God

0

... one love



## LSMAA144 and LSMAA145

New Position: C4.3



In

Memory of

Sarah the wife of

Richard Purge

....

June the 6<sup>th</sup> 1895

In the 68 year of her age



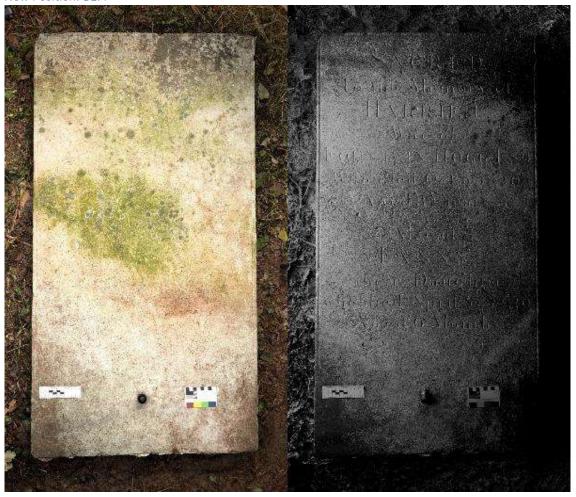


In

Memory of
Anne the wife of
George Broomfield
Who departed this life
February 19 1807
Aged 33 years



New Position: B1.4



Sacred

To the memory of

Harriet

Wife of

Fountain Hogg Esq

Who died Oct 5<sup>th</sup> 1820

Aged 35 years

Also of

Fanny

Their daughter

Who died April 5<sup>th</sup> 1820

Aged 6 months



New Position: A2.5



In

Memory of
Robert Barnes
Who departed this life
December the 25<sup>th</sup> 1815
Aged 44 years
A loving husband a friend sincere
Anda tender parent lieth here
Also in memory of
Charlotte wife of
Robert Barnes
Who departed this life
February the 8<sup>th</sup> 1829
Aged 51 years
Beautiful friends they was sincere



New Position: A5.3



In

Memory of

Henry Hodges

Of Lyxwood

Who died March 16<sup>th</sup> 1831

Aged 62 years



New Position:



In

The memory of

Catherine Butt

Who died March 25<sup>th</sup> 1875

Them also which sleep in Jesus

Will God bring with him



New Position: C1.1



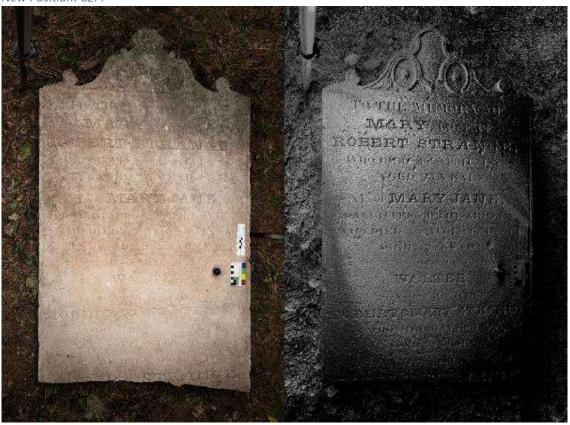
Sacred
To the memory of
Charles Norton
Who departed this life
December 5th 1810
Aged 25 years
In prime of his

..

Also of
Samuel Norton
Father of the above
Who departed this life
January 7<sup>th</sup> 1811
Aged 60 years



New Position: C2.4



To the memory of Mary wife of **Robert Strange** Who died 20th April 1863 Aged 33 years Also Mary Jane Daughter of the above Who died Aug .. 1881 Aged 22 years Also Walter Son of the above Robert & Mary strange Who died May 10 1856 Aged 22 years Also of the above named **Robert Strange** 



New Position: A3.5



In beloved memory of
Frederick Pound
Who died March 30<sup>th</sup> 1874
Aged 63 years
The lord gave the Lord
Hath taken away



New Position: C3.2



To the memory of
Charles Whitehorn
Who died xx XOA MDCCCCxXXV
Aged XLII



New Position:



Sacred

To the memory of

John Goffe

Who departed this life

July X. M. DCCCNIX

Elizabeth his wife
Who departed this life
May XXXL.M.DCCCXLVH
Aged LXXXIV years





In

Memory of

Elizabeth

Wife of

William Bradley

Who departed this life

June 26<sup>th</sup> 1831

Aged 72 years

....

....

Also

William Bradley

Who died December 20th 1837

Aged 73 years

..

..

..



New Position:



Here lieth the body of
William the son of
William Godge who
Departed this life
... March 1792?
Aged 22 years

...



New Position: B2.1



In

Memory of

John I HGIIL

He died Nov 19 1774?

Aged 55 years

В d..... р

with love and hope to life again



New Position: B1.2



Sacred

To the memory of
John Newrolt
Who departed this life
21st of September 1835
Aged 77 years
Also to the memory of
Elizabeth Watson
Daughter of the above
who departed this life
9th of December 1836
Aged 67 years



New Position: C3.4



Sacred to the memory of
David H.urin Ruffell
Who died March 17<sup>th</sup> 1875
Aged 49 years
In life respected
In death lemmented



New Position: A2.3



Here lies

Ann the wife of
Charless Newbolt
Who died March of
1728 aged 72 years
My soul in thy hands I trust
Lord I in freely .eep
My body falling to the dust
I leave with thee to keep



New Position:



Here lieth the body of
Charles Newbolt who
Departed this life on the
20 day of August 1745
Aged 65 7ears
Also Catherine the wife of
John H who died
The 7<sup>th</sup> day of October 1766
Aged 70 years



New Position: A1.1



In

Memory of
Rebecca Robert
Who died Sept 26<sup>th</sup> 1831
Aged 19 years



New Position:



W. D

1850

M.D

1851

New Position:



#### Sacred

To the memory of

Martha the beloved wife

Of Charles Broomfield

Who departed this life

February 18<sup>th</sup> 1849

Aged 57 years

A faithful wide and

Affectionate mother



New Position: A4.5



In

Memory of

John Bolling

Who departed this life

March 7<sup>th</sup> 1855

Aged 25 years

..

..

..

••

New Position:



Sacred

To the memory of

John

**Thomas Catherine** 

Webb

Who died ...

Aged ... years

...

.. Lord ..

Also Amelia

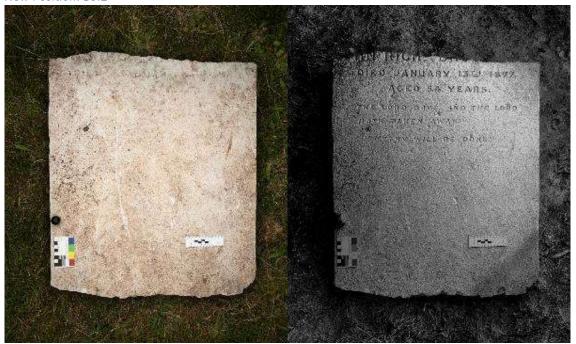
Their daughter

Who died march .. 1810

Aged 15 years



New Position: B3.2



.n Rich.

Died January 13<sup>th</sup> 1877

Aged 54 years

"The Lord gave and the Lord

Hath take away"

"Thy will be done"



New Position: A4.4



In

Memory of

Sir Henry

William B...

Who died Jan 1st 1839

Aged 19 years

Also of William P...

Who died Sept 9th 1856

Aged 56 years

...

. .



New Position: C2.2



In

Memory of

Ann the wife of

John Goffe

Who departed this life

June the 30<sup>th</sup> 1785

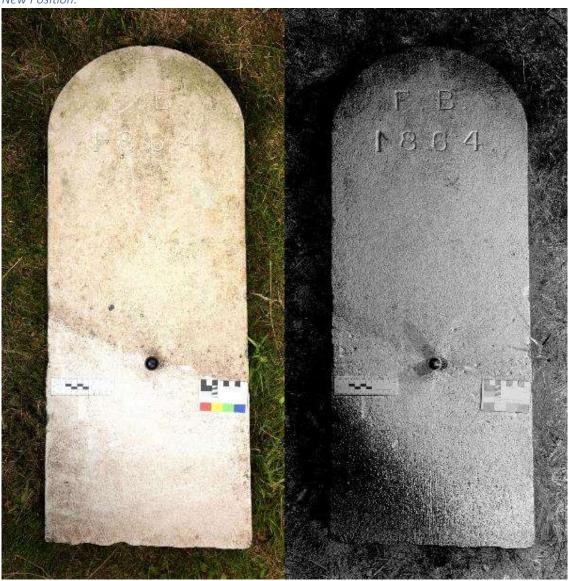
Aged 35 years

...

That ..

O...





P.B

1864

New Position:163 A4.3



Sacred

In

The memory of

Betty the wife of

Aaron Newbolt

Daughter of Charles & Mary

Carpenter

Who offer ...

•••

To God who gave it

On the 16<sup>th</sup> of Sep 1807

Aged 59 years

Also in memory of

Aaron Newbolt Sen

Who died the 3<sup>rd</sup> Sept 1816

Aged 72 years



# Emery Down

New Position:



In

Memory of

Eliza

Wife of

Frances Peckham

Who died

Aug 11 1865

Aged 39

Blessed are the dead

Which die in the Lord



#### Non-RTI results

#### LSMAA103

New Position: B4.3



Fourth son of J.W. & M.A. Rider Who died 24 August 1881

Aged 14

Gentle as a little child



New Position: C5.3



Nothing present



New Position: B5.3



Sacred

To the memory of

Martha

Wife of

Joseph Judd

Who died November 6<sup>th</sup> 1876

Aged 65 years



New Position: B4.2



Sacred
To the memory of
Henry Broomfield
Who departed
This life in peace
August 7<sup>th</sup> 1863
Aged 62 years

Blessed are the dead who Die in the lord

Also Elizabeth
His beloved wife
Who died March 10<sup>th</sup> 1876
Aged 73 years
Nothing in my hand I bring simply
To thy cross I cling



New Position: A4.2



In

Memory of

John Cooper

Who died

September 4<sup>th</sup> 1851

Aged 58 years



New Position:



То

The memory of
William Bailey
Died July 25<sup>th</sup> 1864
Aged 74 years
Also of
Jane Bailey
Relict of the above
Died June 11<sup>th</sup> 1870
Aged 69 years
Two aged parents sleepth here
Who lived and loved in Godly fear



New Position:



Sacred

To the memory of

William Thomas

Noble

Who departed this life

April 26<sup>th</sup> 1867

Aged 24 years

Rest in peace





In loving memory of Stephen Lightfoot

Who died March 1876

Aged 72 years

Also of Ann

His wife

And two children

Who were interred

At Brockenhurst

"Behold God is my helper the Lord Is with them that uphold my soul"



New Position: C4.4



J.C.L.

1845

D.L

1864

G.L & A.L

New Position: B8.4



In memory of

**Edward Graves Oliver** 

August 26 1866

November 22 1938

God is love

And of

Flora Edith

Wife of the above

August 23 1867





Sacred

To the memory of

Elizabeth Fenn

Who died December 1868

Aged 40 years



New Position: A3.2



Nothing present



New Position:



W.B.

1864

ЈНВ

1870



S.L

1866



A.L.

1846



Nothing present





Nothing present



Extra 1
New Position:



Mary
Wife of the above
Who died March 17
Aged 86



Extra 2

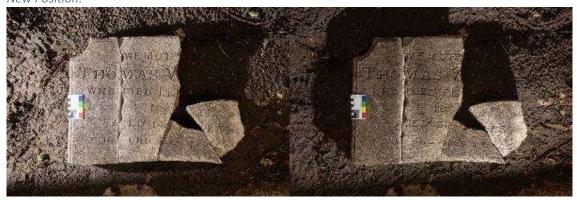
New Position:



То

Extra 3

New Position:



Memory of
Thomas W
Who died February 186
Aged 66 years
His end was peaceful



Extra 4

New Position:



Thomas Carpenter 1882



Extra 5

New Position:



In Hope Rommis XII 12



Extra 6

New Position:



Jane Carpenter 1879



Extra 7

New Position:



Emma Dele died July 2<sup>nd</sup>



Appendix 1 – Gravestone path map with LSMAA numbers

