

# CITY OF LONDON ARCHAEOLOGICAL TRUST ROSEMARY GREEN GRANT: Impact of Industrialisation on London Health

**Report: November 2018**

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The project is in the final stages with the writing up for the book publication with Oxbow and finally following on peer reviewed specialist journal articles. The project has achieved a great deal with the unprecedented large scale digital radiographic analysis of archaeological skeletal remains from pre-industrial and industrial collections in London and Non-metropolitan locations; CT scanning of selected elements; 3D modelling; creation of a unique archaeological radiographic archive and associated Access database collating the recorded data for the individuals from all of the London and Non-metropolitan sites. The radiographic archive will be possible to share with other researchers and will be of benefit to future projects. Having already been able to share information about the Impact Project through talks and presentations at conferences the radiographs have already been able to support an MSc student in her dissertation with a request for further access by them as they continue their studies with a PhD. Another PhD student from the USA has also requested information about access to the radiographic archive for inclusion in their research project.

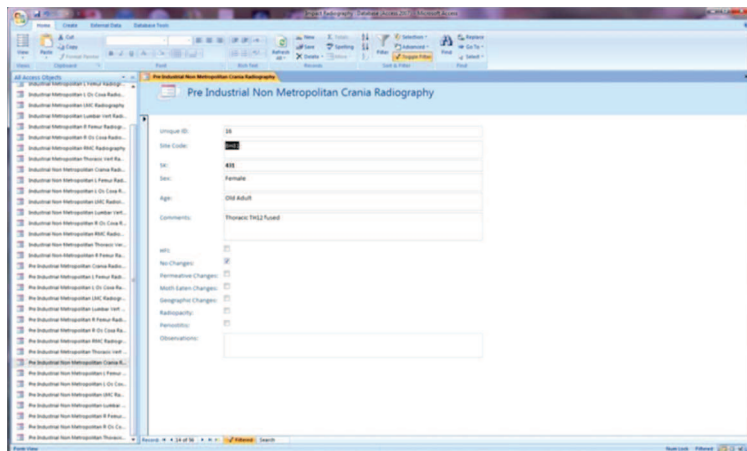
## Highlights from the project

Completion of the radiographic analysis of the sites from London and Non-Metropolitan locations by Gaynor and with assistance from David Allan, retired radiologist.

Site	Location	Time Period	Individuals radiographed
North Eastern Cemetery, Bethnal Green (PGV10)	London	Industrial	200
Billingsgate (BIG82)	London	Industrial	29
Bow Baptist (PAY05 & BBP07)	London	Industrial	127
St George's, Brentford (HHS14)	London	Industrial	114
Bridewell Workhouse - AOC (NBR98)	London	Industrial	8
Broadgate (LSS85)	London	Industrial	61
Chelsea Old Church (OCU00)	London	Industrial	36
Lower Churchyard St Bride's (FAO90)	London	Industrial	136
Mare Street (MRH14)	London	Industrial	146
New Covent Garden (NNE16)	London	Industrial	23
St Bride's Crypt (SB79)	London	Industrial	174
St Mary Graces (MIN86)	London	Pre-Industrial	12
St Mary Spital (SRP98)	London	Pre-Industrial	369
Coach Lane, North Shields (COL10)	Non-Metropolitan	Industrial	88
St Micheal and St Lawrence, Fewston (SLF09)	Non-Metropolitan	Industrial	24
Hereford (Hea)	Non-Metropolitan	Pre-Industrial	50
Holy Trinity, Stratford (P4442)	Non-Metropolitan	Pre-Industrial	48
Holy Trinity, Stratford (P4442)	Non-Metropolitan	Industrial	33
St Peter's, Barton on Humber, Humberside (BH81)	Non-Metropolitan	Pre-Industrial	189
St Peter's, Barton on Humber, Humberside (BH81)	Non-Metropolitan	Industrial	134
Swinton, Manchester, OA Archaeology (SWC12)	Non-Metropolitan	Industrial	50
Upton on Severn, Worcestershire (WSM43246)	Non-Metropolitan	Industrial	10
Wharram Percy, North Yorkshire	Non-Metropolitan	Pre-Industrial	128
<b>Total</b>			<b>2218</b>

## Access database

Creation of Access database by Gaynor for recoding all of the collated information relating to the selected individuals for the Impact Project.



## 3D Models

3D models of the selected bones from the Impact Project created by Gaynor and shared on the platform Sketchfab, used by a number of other cultural heritage institutes. The platform enables the sharing of the images, to view and navigate the models, as well as adding contextual information for the sites and the annotation of the actual bones highlighting areas of interest. The models can be used for teaching and outreach by the Centre for Human Bioarchaeology in the future.

<https://sketchfab.com/jbekvalac>



WSM43246 8134 Cranium Pipe Smoking Facet

## CT Scanning and 3D rendered models

We were fortunate when carrying out the CT scans to have the continued assistance from the radiologists to help us with their experience in the rendering and remodelling of the scan data to enable the 3D models to be shared.



3D model from CT scan of vertebrae of a male from St Bride's Lower Churchyard (FAO90 1879) pathological process - DISH (Diffuse Idiopathic Skeletal Hyperostosis).

### Article publication

Short Communication Article to the Radiology Open Journal, accepted, after peer review, and published on line - Ref. No. ROJ-16-SC102.

### Social Media

Facebook posts continue in relation to the project and there is on-going interest from followers of the project

### Presentations

Inclusion of the project in talks and presentations

- London Archaeologist 50<sup>th</sup> Anniversary conference – October 2018
- Society of Londoners – Museum of London Event – section dedicated solely to the Impact Project with examples of selected skeletal elements and digital radiographs – October 2018
- Talk for the U3A Ealing College – November 2018
- Abstract accepted to be part of session on the Bioarchaeology of Urbanization at the AAPA conference in Cleveland, USA, March 2019 with associated peer review session publication

### Oxbow Publication

Following on from the Oxbow editorial board meeting in February and the decision by them for agreeing to do the publication for the project, we have been in contact with them with regard the format for writing up and for a submission of a draft text to them for the end of November 2018. Writing is in the final stages for the chapters, introduction, site gazetteer and conclusion and will be completed for sending on to Oxbow for the end of November. The word count is currently 38,096 but with on-going writing will be c.45,000 and there are currently 84 and 15 tables. With continuing work will be more figures to add in, at this juncture estimate of 25 more.