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No.19 April 1990

INTRODUCTION

Keep up the good work, thankyou again for all these articles. How about some reviews and cartoons?

I contacted 15 Archaeological Units about their work and have had answers from several - they sent summaries of their work. Do people want them circulated or edited down and added to the Newsletter (as the Winchester excavation news in this month's issue)? Please get back to me on this.

Olivia Belle

THE DEADLINE FOR THE NEXT NEWSLETTER IS: TUESDAY 24TH APRIL

DIARY

Lunchtime Lectures and workshops at 1.10pm:

Wednesday 4th April: Uphall Camp, Ilford and Iron Age London, Pamela Greenwood

Thursday 5th April: Modern Urban Folklore, George Monger

Friday 6th April: May Day in London, Roy Judge

The Archaeology of London, a series of lectures at the British Museum, at 1.15pm in the Lecture Theatre:

Wednesday 2nd May: Managing London's Archaeology, John Maloney

Wednesday 9th May: London BC; the prehistory of the Greater London area, Nick Merriman

see next Newsletter for following lectures.

Environment and Economy in Anglo-Saxon England Conference

Monday 9th and Tuesday 10th April.

Contact the Environmental Dept. for programme and details.

STAFF

Tina Murphy has joined the Excavations Office as our Clerical Assistant. All leave cards, job applications, sick forms etc. should now be sent to Tina.

Resigned

Daniel Bone
Dave Fell
John Hudswell
Jo Lawson
Sue Leaver
Tim Longman
Indira Mann
Dave Mc Ewan-Cox
Vicky Roulinson

Paul Wootton

Appointments

Damian De Rosa, SA, 50 Gresham Street

COLLECT	seva l	London
Address		Archeolog
150		1 Wall
Y	ondon	
	EC2.	
Post Cod	•	

JOBS

DUA SA for 4-10 Artillery Lane, 10-12 week watching brief. Closing date: 5th April.

HBMC Publication Programme.

Applications are invited for three posts, each at Senior Archaeologist grade:

Post 1: Cutler Street, Archive Report (5-month contract)

Excavations at Cutler St. in 1978 revealed extensive evidence of 17/18th century buildings and streets. The successful applicant will be required to complete the Level 3 report.

Post 2: Medieval Waterfront Tenement (6-month contract)

This large project will describe medieaval waterfront housing and two churches in the London Bridge area. The successful candidate will be required to prepare a summary report for publication on the Billingsgate sequence.

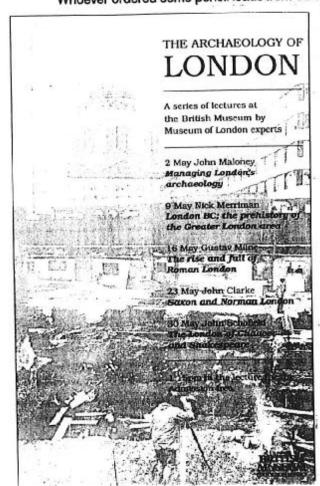
Post 3: Holy Trinity Priory (8-month contract)

Elucidation of the plan and history of the Priory, both through excavation and documentary/ cartographic research, has been one of the DUA's main contribution to the study of medieval London. The successful application will be expected to complete a standard archive report for the MIT83 sites and prepare summaries for publication of some of the sites.

Closing date for applications: 17/4/90 Interviews will probably be held in the week beginning 23rd April. Contact Francis Grew for further details.

ANNOUNCEMENT

Whoever ordered some pencil leads from UDO can collect them from Stuart in the EO.





NEWS DIGEST

English Heritage and Publications

Work proceeds on the two reviews to be compiled by Gill Andrews: the present state of knowledge in the London area and the outstanding (in more senses than one) publication backlog. Otherwise, no news as to the wider movements or intentions.

The post-ex grant for work on the English Heritage/HBMC publication programme in 1990-1 has arrived; all we have asked for has been granted, with the exception of the launching of Project 39, Post-Fire Tenements, which is deferred for separate discussion on a financial technicality. Some of the jobs therefore available within the publication programme are advertised elsewhere in this journal and generally; I would encourage you to apply if you want experience in post-excavation and publication, and think that you can make a good attempt. We wish to broaden our number of staff in post-excavation, and many colleagues have been complaining of a lack of opportunity to carry work forward after the excavation. Well, it may not be your excavation we are carrying forward just yet, but now is a good chance for you to widen your experience.

The department is currently working on a large number of publications. In the HBMC programme site volumes for Saxo-Norman London II (Finds and environmental data), Middle Walbrook and Saxon Embankments are in the pipeline for LAMAS Special Papers; Medieval Textiles and Dress Accessories (two separate studies) are off to HMSO; the CBA are receiving the first three of five related Research Reports on Roman London, those dealing with Upper Walbrook, West of Walbrook and SW Roman London, Summary articles on the Roman waterfront and on the Leadenhall Court Roman basilica excavations are with Britannia. The new Archaeological Recording Manual is printing. The Annual Review for 1989 is being planned, as is publication of the MoL Annual Lecture in 1989 by John Maloney. For the future, besides the remaining HBMC projects, site specific books are being discussed for three sites (Boys' School, Whitefriars; and two sites in Aldersgate). Publication is currently an exciting and innovative growth area.

Competitive tendering

As announced at the Staff Meeting on 6 March, the DUA has been asked to carry out the evaluation at Brooks Wharf, near Queenhithe; Cathy Rosborough and colleagues will contribute to the report, to be sent to the client Hammersons on 18 April. The DUA has also, despite considerable difficulties, secured the contract to excavate at Pinners' Hall in Austin Friars, a medium-sized excavation of up to 4 months from the end of April.

The generally unsatisfactory situation and lack of standards and guidelines is causing grave concern. First meetings are being held to formulate Museum thinking on standards, guidelines and specifications for various areas of archaeological work, as outlined last month. I hope that one document which covers Site Assessment and Data Retrieval (excavation to you and me), now in draft from the multiple pen of the Excavations Office, will be available for circulation and comment within the DUA at the end of April. Guidelines on standards for finds preparation to be permanently retained by the Museum have already been compiled.

Meanwhile we have been acquainting ourselves with the situation outside London. John Oxley, City Archaeologist at York, came at our invitation and described the situation there. Two sites are currently up for competitive tendering. He has prepared a detailed specification for the

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are currently up for competitive tendering. He has prepared a detailed specification for the second and more important, Queen's Staith/Skeldergate, and hopes that he can add a decent specification to the first site which happened before he was appointed. Interestingly, YAT are written into the specification to provide things like ceramic dating and conservation. Secondly, ex-DUA supervisor Chris Evans called in to clarify a rumour that the new Cambridgeshire Archaeological Unit (directors: C Evans, I Hodder) might be on the prowl. Chris denies this as far as London is concerned, but wonders if there is a role for his unit in judging competing archaeological evaluations where a client does not have a consultant.

I have declined an invitation for the DUA to tender for the excavation of the Skeldergate site in

Premises

We have put in a serious bid for the premises at Great Eastern Street, as promised last month. This will enable most, if not all, of the site post-ex functions to be carried out in one building, which will make supervision and computerisation much easier. This would free Plaisterers Hall and probably part of Bridge House to accommodate expansions in existing functions. When we are a little further down the road of acquiring the place, we can talk about who goes where. Please do not be alarmed; we shall make considered decisions and with full consultation.

DUA/DGLA talks

Most of the planning and negotiation discussion papers are in, but few of the post-ex and publication papers; so news must be deferred until next month.

Housekeeping, money, budgets

On 22 March the Director gave clearance for us to go ahead with the implementation of trial covenant arrangements with Commercial Properties Ltd and of qualifying donations with MEPC. The new Budget initiative of Gift Aid may also help sponsorship.

It seems generally inevitable, and good practice, that we should bring in timesheets for all members of staff. Most of you are used to them anyway, but they are not employed at the moment in HBMC post-excavation projects. After compilation of one (or at most two) variant forms, we hope to introduce them during April.

John Schofield

The Trust for British Archaeology

SMALL TOWNS AND ARCHAEOLOGY

Saturday, 28 April 1990 10 am to 5 pm

Grantham College of Further Education, Stonebridge Road, Grantham, Lincolnshire

Increasing developments in the small towns and office of Britain is ing their archaeology. Recent examples include Monmouth and where large-scale development threatens to destroy the material evidence of their once-prosperous past. This one-day conference is for those who live in small towns, who have to deal with them, or who simply care about the way they are changing. It will look at the problems and aims to find some solutions to them.

Tickets (£5) and further information are available from Brian Simmons, Trust for Lincolnshire Archaeology, 28 Boston Road, Steaford, Lincolnshire NG34
7EZ, or from Bob Jones, City of Bristol Museum and Art Gallery, Queen's

Road, Eristol, BS8 1RL

This looks like a very fine day out for anybody interested in small towns. Those featured will Include Boston, Sleaford, towns in Essex, Monmouth, Grantham, Spalding, and in N.Lincs, and Cleveland. A suitable train leaves from Kings Cross at 8.25 am.

SOSSELL REPORT

LETTERS

Dear Editor,

I was interested to read Chris Sparey-Green's ideas on Archaeology and the Green Movement in the last issue of the Newsletter.

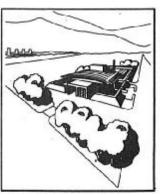
I don't know whether I agree with Chris or not, but I do notice that Chris's views appear to contradict those of a certain Dr. Geoffrey Wainwright writing in the March 1990 issue of *English Heritage Magazine*.

In an article entitled "Archaeology and the Green Movement" Dr. Walnwright states: "A useful way of thinking through the issues is the formulation of a management plan The value of a management plan is that it provides a quarry (sic) of detailed information for decision making in the course of day to day activities and promote(s) continuity by emphasising the long term strategy Like all natural resources, the archaeological heritage needs to be understood in terms of quality and quantity of the reserves we have (and) how it can be most effectively managed so that valuable assets are not squandered or over exploited for short term gain*.

Well Chris who do I believe? You or this Dr. Wainwright?

Kevin Wooldridge

P.S. One of my favourite radio programmes is "Gardeners' Question Time". Dick Malt says that his dad, who catches a lot of cod, says that if you bury the left over bits from cod in your garden and then plant broad beans, they come on a treat. I think that halibut are more likely to produce good celery. I was wondering whether your Green Correspondent has any views on the use of fish based fertilisers? ••••••••



No 2 Poultry

Suffolk planners have given "green" light for Europe's first ecologically-sound power station,

which uses chicken droppings as fuel.

Designed by London architects

Lifschultz Davidson, the power station at Eye will produce 10 megawatts igh electricity to supply a town of 10,000 people. The power station owners, Fibro-

droppings from local farms, disposing of about half of Suffolk's annual poultry manure.

Fibropower claims this will cut the release of methane gas and nitrates into the atmosphere — both of which are produced by chicken droppings
— and save valuable fossil fuels.

WOMEN AS INTERPRETERS OF ARCHAEOLOGY

who are we? what do we do? What are our alms?

Inspired by the gender studies session at TAG89, we have established a study group for women, and are in the process of setting up a series of open meetings with outside speakers.

Women - why not come along to the next study group meeting? We need your support - and your ideas. Please come.

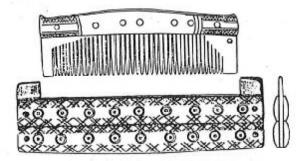
> 11th April 4.30 pm, Education B, Refreshments provided.

FINDS DEPARTMENT

Fleet Valley continues to yield finds worthy of note and this month has produced a pair of very well preserved medieval copper alloy tweezers from a waterlogged deposit. A Roman copper alloy brooch from the site will be X-rayed to allow further identification.

A test pit at the north end of the Vintry site uncovered a wattle-lined cess pit of medieval date containing two wooden bowls, an unusually large wooden comb and German and Spanish pottery imports. A glass *calender*, or linen smoother, was found in another part of the site.

A Leadenhall site (LHN 89) produced a short single-sided bone comb with its bone case. The case is decorated with ring and dot designs. The comb has both copper alloy and iron rivets which may indicate that it was repaired at some time. This object is of a familiar late Saxon type. The illustration shows a similar comb and case from Liverpool Street.

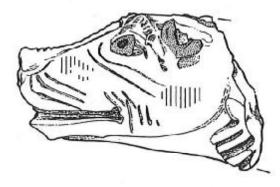


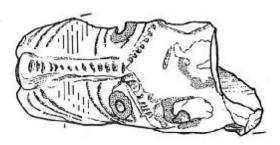
A couple of interesting items from Whittington Avenue have been discovered in the course of pot dating. These are a Central Gaulish lamp with a partially draped figure - probably a *Maenad* (Maria says it has lovely buttocks!) - and a North African red slipped ware bowl, decorated with rouletting. This type of bowl is rarely found in Britain. This example also has part of a stamp.

Further examination of the late Roman comb from Giltspur Street (reported in the November newsletter) has revealed the presence of animal shapes, probably lions, cut out of the middle section between the connecting plates.

The glass from the Billingsgate Bath House (BIL 75) is currently being examined by John Shepherd and consists an exceptional group of late Roman glass including a colourless beaker with geometric wheel-cut decoration and some cameo glass.

The sweetest find of the month is a medieval ceramic dog's head (illustrated) from Bishopsgate (PSO 90). It is green-glazed pottery, probably Kingston ware, and is of mid 13th to mid 14th century date. It may have been the spout of a zoomorphic jug or part of an aquamanile.





Staff News

Simon Pope (Finds/Site Ilaison) has moved desks and can now be contacted in the finds processing room on extension 316. Tilly Webb has resigned in order to satisfy her desire to travel round the world. Finally, the Finds Section would like to welcome Paula McCarroll who defected from Fleet Valley in mid March to become the new Finds Archive Assistant.

Victoria Cassely
Illustration by Gill Hale

ENVIRONMENTAL DEPARTMENT

Over the last couple of months we have had three new staff join us. John Giorgi, an archaeobotanist who has worked for some years in Rome and recently studied at Sheffield University on the MSc course in Environmental Archaeology, joined us on the 12th February. John will be working on archaeobotanical post-excavation projects. His is a new post and the work will involve HBMC and developer projects. On the 12th March two new staff joined from the DUA and DGLA Field Sections, Janet Stacey and Klara Spandi, as Environmental Assistants. They are both currently working on the samples that have been collected on the Fleet Valley Project.

At the beginning of April we will lose one of our longest serving colleagues. Dominique de Moulins is leaving to complete a PhD at the Institute of Archaeology on neolithic agriculture in Syria using material from the site at Tell Abu Hureyra. She has successfully obtained an SERC grant for this project. I would like to take this opportunity of thanking her for her contribution to the environmental section and its work over the last five years, and wish her luck with the research.

Dominique will be replaced by Liz Pearson who will be joining the section this month. She has spent the last year working on archaeobotanic projects in the Midlands while based at the Environmental Unit at Oxford University. She has already worked with us when she did her dissertation on material from Beddington for an MA at the Institute of Archaeology.

Two GCSE work experience students who spent two weeks with us recently were so interested and impressed that they have promised to come back! Meanwhile work continues on the processing of all the samples that have been taken. The London Wall samples have been finished and Roman samples from 40 Queen Street have been turning up lots of fish bones. We have reduced much of the backlog of bulk samples at the sieving operation in the Southwark warehouse and this recovery technique is fully repaying its effort in finds and environmental material. Nigel Nayling is coming to the end of a major dendro-dating exercise on the Bucklersbury site. Post-ex projects at the moment are largely DGLA but two major DUA projects on the Roman period and medieval riverside dumps are due to start shortly.

James Rackham

COMPUTING DEPARTMENT

UNFINISHED FIELD ARCHIVE REPORTS

Printed in the last newsletter was a list of all the completed Field section site archive reports that I have been given. All these reports are archived onto tape. If you have written up a site using a computer and your site is not on the list please contact me.

At the moment there are unfinished site reports that are no longer being worked on. I will now be archiving these onto tape. This will be a tape of only un-finished work and anyone using this tape will be told this. The main reason for archiving this work is for safe keeping. If you have any un-finished work that will not be completed in the near future please send it on a labelled disc to me at Ferroners House or inform Liz Shepherd or Andrew Westman.

CALLING ALL PC USERS - Tandon, Compaq, Epson, Shelton (!) BACKING UP YOUR WORK

Backing up your work means COPYING YOUR FILES TO A FLOPPY DISC. It is vitally important for you, that you copy all your files to a floppy disc for safe keeping. If you accidentally delete a file you will still have a copy on your floppy disc.

If you are using a PC which is running MS-DOS or CPM it is your responsibility to back it up. If you are not doing this please ring Duncan McDonell at Ferroners House NOW and he will tell you what to do.

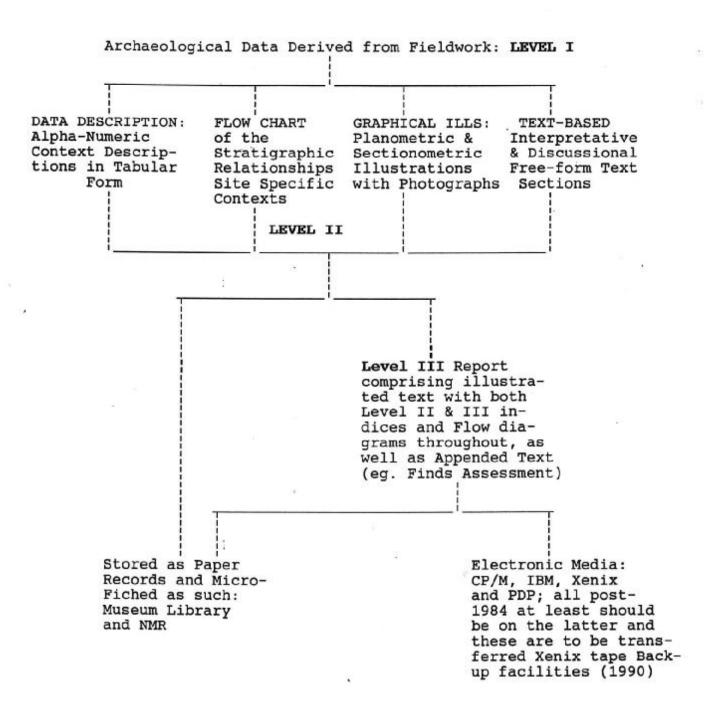
Also don't forget save your work every ten minutes!

Zoe Tomlinson. Ferroners House. 796 3040.

DATABASES AND/OR MAPBASES

A pilot research project was conducted from November 1989 to February 1990 at the University College of London's Department of Photogrammetry and Surveying to look into the possible use of Geographical Information Systems (GIS: text- and graphics- based database management systems) in the context of archaeology within the City. This largely entailed the compiling of a bibliography of GIS work in both the academic and commercial sectors with a view towards its potential within the archaeological community. Following a survey of user requirements for such graphical systems, the various components which would comprise such a system were investigated. In practical terms, the project was mainly concerned with exploring ways of creating better access to the DUA/MoL archive, not only as a pure research tool but also as an aid to field archaeologists on and off site. It was also planned to provide a more solidly based research design for further study with a mind to possibly implementing a GIS within the Department in the long term.

Chart 1: Primary Level II Datapath to Level III Report for the DUA/MoL Archaeological Archive



While Robin, Computing Manager, is busy setting up the new relational database management system, ORACLE (RDBMS), and Mark, Survey Co-ordinator, continues to build on the graphics (AutoCad) side of things (previous Newsletter), largely the acquiring OS maps of the City on electronic media, Dave Chapman and myself are looking at both fundamental GIS components with particular reference to the marriage or interfacing of the two data banks in order to run the system under one overall archaeological database or geographical information system (GIS). A data model, which would allow queries of the text-based data from sites, was established with archaeological data from a recently excavated site in the City for use in the building of a small-scale prototype GIS within an ORACLE RDBMS via a loose coupling of an object-oriented graphical management system.

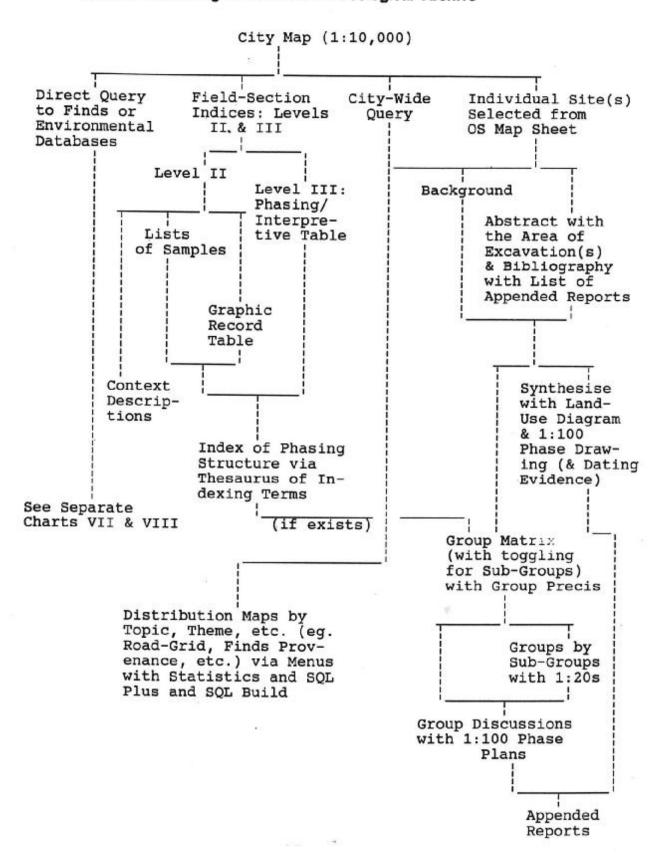
The three primary databases (Finds, Field and Environmental) comprising the archaeological archive are all cross-referenced by site code and context numbers, but as separate data banks the information they hold cannot be queried simultaneously. A series of input programmes, all linked by site code and context numbers, were developed under Standard Query Language: SQL PLUS (Macintosh) within an ORACLE RDBMS (front-ended by Hypercard). These input programmes include context descriptions, level II (graphic record table) & level III (a graduated series of interpretations by field) indices, as well as a completely new programme to handle incoming graphical or spatial data (le. level II plans and sections). Another programme involving the machine-generated construction of the context stratigraphic flow chart (matrix) was built, as well as a suite of debugging programme. Although it had already shown that the process could be achieved for simple matrices, in needed to be tried on a more complex site, entered directly from the level II sheets (warts and all), as this would be typical of urban archaeological conditions. Once constructed, this system would allow full interrogation of both the text and spatial information held within the newly developing system (RDBMS).

Ultimately, this process was to lead to the building of a prototyping of a small-scale system, not only with the text-based data but with a selection of graphical data (eg. level III phase drawings), as well. The series of programmes (above) with accompanying data were mounted on an ORACLE (MAC) RDBMS which was linked to Intergraph's MAC MicroStation (CAD package) on a MAC SE II. This proved to be a successful marriage, even though the hardware proved to have insufficient memory to function efficiently. Nevertheless, it showed that the textbased RDBMS and the graphics-based CAD package, MicroStation in this instance, could function together. Unlike AutoCad, MicroStation is bundled with links to various database packages, including ORACLE. A site will now be chosen for its full level II data to be loaded into the prototype (data model) and run as a complete pilot example to form a demonstration of the system. Although the programmes were written under the Macintosh system, they can be exported as simple ASCII text files for used under the Department's Xenix system. In the end (or in the beginning, I should say!) the system would allow queries across the various types of information sources whether separately or in association with other data (ie. graphics and text), allowing syntheses of the ever growing archaeological data to facilitate the formation of conclusions of the history of London's past.

This foundational work continues, and Dave and Robin will be presenting a paper on the results of the machine-generated matrix portion of the research at the CAA'90 conference this month. Recently, we have catalogued the state of archival material from Field Section which presently exists on Xenix (backup) tape (2.90); and currently, we are transforming and converting to one format and one form all the level II and III indices that we have at our disposal (3.90). These will probably be the first batch of data to be loaded into the new RDBMS as actual data, at least the ones which allow this standardising!

Mike Shea

Chart 2: Accessing a Central Archaeological Archive



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ARCHAEOLOGY IN THE CITY OF LONDON, AN OVER-VIEW

INTRODUCTION

How do you view the archaeology of the City of London? To me at present seated in Bridge House it appears to consist of piles of context sheets, which I am attempting to arrange in a close semblance to stratigraphic order or failing that put the sheets in numerical order, then place them in ring binders - so at least they will look tidy. Perhaps to other members of the DUA the archaeology of the City seems to be mountains of unwashed finds or an endless succession of muddy trenches, run by harassed senior archaeologists. To property developers it may appear just another expensive planning hurdle. In fact it seems to me that we each hold a different piece of the jig-saw. A day school last month attempted to join all the pieces together to provide an over-view.

ORIGINS

The history of the City of London starts soon after the Roman invasion of south-east England in AD 43. By about AD 50 the area of modern Cornhill was being settled. It has been suggested that this settlement was a planned town and pre-dated the Cripplegate fortress (see fig. 1), so London did not develop of a vicus outside a fortress - like many Romano-British urban centres, but as a port. Ephemeral traces of Prehistoric activity found within the City appears to be coincidence.

ROMAN PORT

The actual choice of site may have been dictated by the decision during the late 1st century AD to locate a bridge here to link the north and south banks of the River Thames. A possible timber pier base was found at the junction of Fish Street Hill and Lower Thames Street in 1981. One factor in the siting of the bridge was probably the very low-lying topography in Southwark, prone to flood at high tide, topographic considerations appear to have persuaded the engineers to site the roads across Southwark on the largest ridge of high ground - opposite Fish Street Hill. A bridge would have attracted all the local overland traffic, as a diversion would have been preferable to fording the Thames at Westminster during low tide. Therefore the bridge would have offered a good site for trading or retailing.

Docks here would have been a convenient point to off-load cargoes from large sea going craft to smaller river craft, for shipment upstream and tax collection. Goods handled by the port included barrels of wine, imported pottery - amphorae containing wine or olives and bulk loads of samian tableware from Gaul.

Along the shoreline by the end of the 1st century AD along was a complex of wooden quays and warehouses. The 1st century shoreline was the north side of modern Thames Street, all the land further south has been reclaimed from the estuarine foreshore. This process of reclamation and ground build-up (by dumping rubbish behind the quays and revetments) has created the depth and richness of the archaeological deposits of the foreshore.

ROMAN CITY

To the north of the quays on the south facing slopes of the two low hills each side of the Walbrook stream (see fig. 1), the City rapidly developed during the 2nd century AD. The impact of urban growth is shown in changing patterns of *diatoms* (algae) within the Walbrook sediments. During the Prehistoric period the Walbrook was a quiet shady stream flanked by deciduous woodland. However the growing City soon began to pollute the stream. It became a sewer and a rubbish dump. The local glassmakers and leather workers threw all their waste

products into the stream. In fact the Romano-Britons appear to have to had the urge to throw all manner of objects in to the Walbrook including shoes, skulls and statues. The modern equivalent of this behaviour is the throwing of supermarket trolleys into any water course.

Along the south facing slope, each side of the Walbrook during the early 2nd century a series of monumental stone buildings were constructed. The basilica/forum was rebuilt and enlarged, a palatial complex of buildings (now partly under Cannon Street station) are believed to be the Provincial governor's palace. Nearby at Huggin Hill a large complex of heated rooms is interpreted as a public baths, built during the late 1st century was enlarged during the early 2nd century. While on the top of the hill at Guildhall Yard an amphitheatre was built. No trace of a theatre has yet been found, perhaps it lay outside the City walls?

Good building stone is not locally available within central London, so stone would have been expensive and therefore is only likely to have been used in high status buildings or public works. In 1962 reclamation work at Blackfriars Bridge revealed the wreck of a 2nd century boat or salling barge with a cargo of ragstone. Most houses, shops and workshops were built of brickearth/cob or timber-framed construction. Such structures could have been two storeys high. The major streets appear to have been lined with strip buildings, often one room wide extending back from the street frontage.

The City walls and gates date from circa 220-250, while the riverside wall dates from the late 3rd century. The construction of the riverwall cut off access to the quays and closed the port. The redundant warehouses became houses or shops.

THE CITY IN DECLINE

The last monumental Roman building to be erected in the City was at St. Peter's Hill. Here excavation has revealed stout oak piles and inter-laced timber work, serving as foundations for massive stone foundations. Due to truncated down to foundation level, both the plan and interpretation of this structure are uncertain. It has been suggested that it was a palace or temple. To find and date a Roman structure is one thing, to prove who built it or its function is quite another - a point people tend to gloss over.

Dendrochronology proves that the foundations of the St. Peter's Hill structure were built of timber felled during AD 293-294, during the reign of the rebel Allectus (293-296), an enterprising individual who set himself up as Emperor in England and Gaul - after murdering the previous rebel Emperor. Perhaps like the late President Ceausescu of Romania, Allectus may have had a passion for erecting grandiose public buildings as a monument to his reign. If this suggestion is true it is quite possible that the St. Peter's Hill complex was never finished as Allectus was deposed and London reconquered by Imperial forces in AD 296.

From this time onward London appears to be in a decline, the Basilica fell into disrepair and may have been partly demolished during the 4th century. At Huggin Hill, the baths were demolished down to ground level and brickearth and timber-framed houses and workshops for glass and iron working built on the site. Certainly the City was not abandoned, as judging by finds of coins, settlement continued until the end of the 4th century.

THE STRAND

From the 5th until the 9th century activity and settlement appears to have been concentrated with the Strand area between the Cities of London and Westminster. Here the Anglo-Saxons like many modern developers chose a "green field site" rather than a decaying city centre. Here at Lundenwic another part was established. This appears to have been a beach market - the early medieval equivalent of a car boot sale, where local people would have sold or exchanged good from their boats. There would have been no need for specialist merchants or

warehouses. However the former Roman City had not lost all importance as in 604 Melitus, first Bishop of London dedicated a church to St. Paul on the site of the present Baroque cathedral.

ALFRED'S CITY

In 886 King Alfred ordered the reoccupation and fortification of the City of London, as the undefended Strand settlement had been raided by the Vikings in 841, 851 and 871. Harbours were established at Queenhithe, Dowgate, and Billingsgate (see fig. 2). A new network of streets aligned north-south was established, leading uphill from the river.

By the 10th century reclamation of the foreshore had begun again. The first revetments were lines of timber stakes, earth banks and wattle structures. By the 12th century more substantial structures with horizontal planks and angle braces were being erected. The space behind these revetments was infilled with domestic rubbish, so excavation of these deposits produces a wealth of finds. Study of the pottery from dumps correlated with waterfront structures - dated by dendrochronology - has allowed closer dating of many medieval pottery types than was previously possible. Construction of new warehouses along the waterfront also begun during the 12th century. This process of reclamation continued until the construction of a stone-built river wall during the late 15th century.

THE POST-MEDIEVAL PORT AND CITY

By the 15th century London was a major international port. This phase of the capital's history is still echoed by place-names such as Fish Street Hill, where the fishmongers gathered. The church name - St. James Garlickhythe (garlic harbour) recalls another cargo.

London remained a major port until the middle of this century and much of the City's waterfront was still occupied by Victorian warehouses until the I970's. However the development of bulk carriers (too large to use the 19th century docks) and container traffic have made these warehouses redundant, so these sites have been redeveloped to provide office accommodation. Today London has the third largest Sock Exchange in the world (after Wall Street and Tokyo) and is a banking and insurance centre of international importance. These new functions create an endless demand for office accommodation with the City of London.

THE FUTURE

Looking around London today, there are few reminders of its past roles as a Roman City or an international port. Every year its skyline becomes more like that of Hong Kong or New York - an ugly mass of steel and glass.

Current redevelopment is destroying the archaeology of the last 2000 years at an alarming rate. Before the DUA was established in 1973 it has been estimated that some 60% of the archaeology of the City had been destroyed, since then another 20% has been either excavated or destroyed. This means that we are not only working ourselves out of a job, but that judging by the present rate of destruction there is likely to be nothing left by 2020.

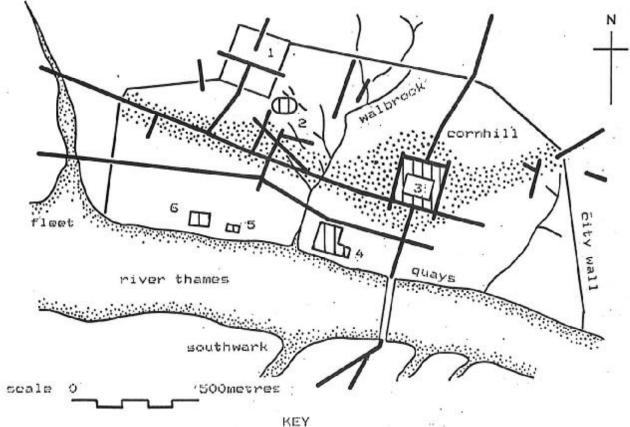
Clearly a conservation policy is called for to prevent further destruction, but conservation of archaeological deposits would hinder development and conservation would not earn profits or peerages for anyone. What price this citadel?

Bruce Watson

NOTES

1) Archaeology in the City of London, a day school, held at the Museum of London on 10/2/90. This article is based on lectures by: G. Egan, J. Maloney, G. Milne, J. Murray, M. Rhodes, J. Schofield and T. Williams.

Fig 1: Roman London



- (E)
- 1 Cripplegate fort
- 2 Amphitheatre
- 3 Basilica/forum
- 4 Palace
- Huggin Hill baths
- St Peter's Hill
- known road
- extent of mid 1st century AD settlement

NOTES ON THE WARP-HBMC CONFERENCE OF THE 15TH JANUARY 1990

As it is unlikely that the subject matter of this day conference will be of central interest to most of you, here is just a very brief outline of what took place. It was important in the sense that the speakers were ostensively there to develop and illustrate sections of the draft "Guidelines on waterlogged wood". This document was drawn up to provide distilled advice on the subjects of excavating, recording, processing, dendro sampling and the initial conservation requirements of waterlogged structural timbers. The document has now been offered for comment and when revised it will be issued nationally in a few weeks. As it follows established DUA procedure and methods in nearly all its suggestions we should have no difficulty in using it as a "standard document". Most other units will have to greatly improve their work to match its basic requirements. The excavations office and I have a copy of the draft "Guidelines" should any one want to see them. Of course they must be required reading for the responsible archaeologists involved with all aspects of the Brooks Wharf site including the honourable consultant!

The conference was started by a brief outline of the HBMC Archaeological Wood Survey, fluently given by *Nigel Nayling*, and a summary of general information on sites yielding waterlogged wood in Britain over the last year or so. He noted that he was able to list 480 sites yielding waterlogged timbers excavated over the last few years. One might think that this was enough to have spurred the development of an "Archaeology of Wood", also such a child of the labour of love that is recording ancient timbers yet to be weaned. Nigel Nayling carried out the bulk of the work before joining the Museum, but is still up dating the computerised index so if you know of sites that produced wood, dug in the last few years, you could let him know about them. There are several Neolithic and Bronze Age sites, 16 Iron age, 194 Roman sites (88 of them in the London area), 70 Dark Age, 140 medieval, and 46 Post-Med (mainly boats and ships).

Next *Gustav Milne*, doyenne of the waterfront, gave an overview of both the basic process we use in the DUA to record timber structures and the aims of that process, and also the actual realities of digging up waterlogged timbers in an Urban rescue context. He bemoaned the fact that so much [99.9%] of the timber excavated has been thrown away due to lack of funding and inclination to preserve this part of our material heritage. He also outlined how in London we have suffered from an embarrassment of riches which has resulted in confusion about what to keep which has in turn resulted in the timber largely being dumped out of sight and mind (with the rare exception of parts of several waterfronts from Billingsgate, and more recently some material from Southwark). Preservation through record to a high basic standard is essential. He also made one or two more general points about some of the long term objectives of a systematic approach to recording archaeological timbers. One of these was the possibility of reconstructing the trees and thus the landscape that was used to produce the raw material, hence his title "Seeing the wood in the trees". He also illustrated the effect of contemporary Philistine attitudes are having on our work on the waterfront, unregulated competitive tendering and all.

The freelance wooden artefacts specialist *Carole Morris* gave the next talk which covered the questions of "what should be recorded?" at the detailed level of tool marks, timber conversion etc. Her talk was illustrated as much with slides of experiments in early woodworking as by archaeological material, and the fact that she does not have to deal with large quantities of big timbers put her at a disadvantage. However her talk got over the message that recording ancient timbers is recording ancient wood workings, and thus it must be done with the help of

someone who knows something of wood working practice not just how to hold a tape or use a level. In other words, as the "Guidelines" suggest we could do with some more archaeologists with some of the special "Nouse" sorely needed. Interestingly there are no academic courses at all as yet though this might change. The guidelines are weak on this point, failing to address the obvious that unless people are able to recognise say an axe mark or a *stopped splayed scarf with undersquinted buts* we can't preserve them through record, or adequately advise curators on what they should consider keeping.

J. Hillam a tree ring specialist from Sheffield, then gave a review of the state of tree ring studies in Britain and its potential for dating, studying aspects of woodland management, and reconstructing past climates. She also showed how detailed tree ring studies can reveal rebuilds in structures, the unrecorded reuse of timbers, and how the section of the tree used in a timber may also be noted by the dendro specialist. The various approaches to actually getting your sample, chain sawing coring etc. were also run through. The hope that chronologies based on non oak timbers and cross matching across species was also raised.

Before lunch *Michel Colardelle* gave us a colourful outline of work carried out on the waterlogged medieval site in eastern France at Charavines. Here the logistical backup is to be envied, but the conservation of nearly everything organic seemed impractical to this author. Though such an approach does allow for the reinvestigation of material it is also likely to submerge existing facilities so that future more significant finds may have to be dumped. It also allows recording to be of a lower standard than is desirable, a lot of archaeological storage in Britain groans under the weight of stinking tanks full of unidentified uncared for wood that eventually gets thrown away without proper record.

After lunch *Jim Sprigs*, chief conservator of the York trust gave a succinct account of the conservators role in processing timbers, from presence on site to lifting and storage. The possibilities of selectively using controlled air drying and preservation in situ, much more than we do now, were touched on. Why more effort is not expended in this area of conservation research is hard to fathom, particularly when the Dutch, for example, have been using methods of controlled air drying for many years on a very large scale. One might suspect that some think that if a method is cheap and "low tech" it can't be any good! This is not to say that the majority of archaeological waterlogged wood should be air dried but just that the method should be considered and developed (the DUA has used this method with some success with the 17th century ships timbers from the BOY 86 site).

An interesting talk was then given by *David Lawson*, a museum curator from Somerset. However it seemed, to me at least, largely irrelevant to the problems being discussed except in so far as we heard at least one curator suggest that the public and archaeologists of the future should have the possibility of seeing this fragile but fundamental part of our common heritage on display and in store. The body Mr. Lawson works for now has the responsibility for the curation of material from the Somerset Levels so I hope that we shall be able to see such material on display over the next few years. The lack of funding for dealing with this type of material in most museums was highlighted. An interesting aside here is that Hackney museum, well known for its vast resources in this field managed to acquire (in a few weeks) the funds for the conservation of a Saxon boat found in its area, more than our museum has been able to do, in 16 years. Is the lesson here that "where there is a will there is a way"? Has the will been lacking some where in the Museum of London??? It is of course much cheaper to display the stuff museums have been displaying for at least a hundred years, but does it do justice to the archaeology or the consuming public, or are the images presented a sanitized form of an inorganic past so different from our field experience of it?

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The last paper of the day was a review of the future logistics of the conservation of archaeological waterlogged timbers, by *Kate Foley* of HBMC lab. Apart from the point she made about the need to quantify waterlogged timber assemblages in terms of volume, not numbers of sites that may be producing it, her talk was very disappointing. No workable solutions to the problem of where to get funding were offered, HBMC can not be seen as a reliable source in this respect. The present system of no system at all was offered as adequate, piecemeal funding to the rescuel? Fortunately *Susan Keene* of the MoL conservation lab was there to present the DUA experience in relation to the Billingsgate waterfronts, in the following discussion. Her clear description of the funding situation there effectively rules out the hope that K. Foley had raised.

The overall message of the conference was that the archaeology of wood is on its way up as a respectable subject but no money is on the table for it yet. Here the DUA stands out as a beacon of hope in this respect at least at the recording and initial processing end, we must build on this despite current temptations to axe "fringe" expenses.

One of the most well considered comments made at the end of the day was made by G. Wainwright, who suggested that we should throw away all the timbers now in store and start afresh! If this policy was adopted as the government line it would be one founded on the most serene Ignorance Imaginable. None of the basic questions that must be asked of that material have been asked in a systematic way. English Heritage rescues and protects our heritage again? These questions are:

- a. Has this material been examined by competent people? (do we know whats there?)
- b. Do additional details have to be checked and recorded?
- c. Have local curatorial bodies been fully informed of the potential and importance of the material?
- d. Have botanical and dendro samples been taken?
- e. Should parts of the collection be kept for an ancient wood working reference collection?
- f. Could casts be made or selected timbers conserved for display?
- g. Would the material be of possible interest to either a specialist British museum, such as a museum of timber buildings, or a foreign museum?
- h. Is long term low cost storage or reburial a possibility.

D.M. Goodburn DUA Archaeological Timber Specialist, Bridge House.

P.S. The DUA put up a poster display on timber recording in the City and some highlights of the new finds. (Thanks Julie and Tracy)

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EXCAVATION NEWS FROM WINCHESTER

1. HIGH STREET

The site is located within the walled area of the town.

Roman Period: Discoveries include a sequence of buildings dating from the late 1st century through to the late 3rd century; a Roman street running north south which had been resurfaced 15 times and a yard enclosed from the street by a flint wall.

A thick layer of dark soil covers all late Roman remains.

Saxon period: No evidence of activity remains apart from a residual find in a post medieval feature: a half of a glass ball, made up of small glass fragments and multicoloured milleflore glass, melted down, shaped and pierced to form the ornament. Similar objects are known from high status pagan saxon graves from the 5th and 6th centuries.

Medieval period: The pitting that damaged most of the Roman stratigraphy occurred now. The pits were lined with wickerwork or jointed beams and planks.

The area was levelled in the 13th century and divided into 2 separate tenements - several phases of floor and occupation deposits were found, as well s a cobbled yard and an outhouse.

<u>Post medieval period</u>: One of the tenements was destroyed and there is no evidence of activity until the Woolworths stone was constructed in I928-29.

The other tenement became a garden and there is some evidence of 17th and 18th century pitting.

2. 28-29 STAPLE GARDENS

The site lies in the Orams Arbour Iron Age Enclosure, in the north west quarter of the Roman and medieval city.

Iron Age periods: No evidence of activity.

Roman period: No much activity apart from a north-south street and a gravelled yard surface. A thick layer of dark soil covers the site in the 3rd and 4th centuries. During the late Roman period a cobbled surface was laid re-using Roman building material.

Late Saxon period: The site was intensively occupied. A sequence of timber buildings with compacted clay floors and hearths was discovered.

A severe fire destroyed these 2 buildings leaving remains of the roof structure, a chalk tempered cooking post (containing dried uncooked beans) a crucible with its iron based contents spilt on the floor, quernstones and the base of a wooden bowel or bucket.

Following the fire the buildings were rebuilt twice and finally fell out of use by the end of the 10th century when the site was levelled.

<u>Saxo Norman period</u>: A thick gravel surface was laid across the site and repaired at least twice. This surface was cut by a number of pits and sealed by a thick compacted chalk surface, possibly the floor of a 12th century timber building.

<u>Late and post medieval period</u>: The site became a garden or an orchard in the 16th century and occurred in the 18th and 19th century.

3. 1-3 STAPLE GARDENS

The site lies within the town defences.

<u>Romano-British period</u>: The earliest deposits are of late Roman date: slight remains of a timber building and the remains of a late masonry building with an associated lane and garden.

<u>Late Saxon period</u>: Following a build up of grey soils a cemetery, broadly dated to the late Saxon period, was laid out. A total of 206 Christian burials were excavated, 6 burials produced grave goods (one or more Roman coins in the hands or abdominal area). Remains of an eastwest street sealed the graves.

Medieval period: A build up of occupation soils associated with pits and a possible timber structure were uncovered. In the 13th century a masonry building was constructed and replaced in the 14th century with a substantial masonry structure which had continuous use until the 16th century.

Post medieval: The only signs of activity are garderobe pits and a well.

From: Winchester Museums Service Newsletter, Issue 6, Feb.90

If you want more details, you can consult our copy of the Newsletter in the Exc. Off.

WET DREAMS OF A GREEN ARCHAEOLOGY

The Greens recently made it to the pages of *Antiquity* with a call for 'Perestroika', with the involvement of archaeology in wider conservation issues and the appreciation of 'dead' sites within the context of the present 'living' landscape (Greeves 1989).

Greeves rightly bemoans the seeming impotence of the archaeological community to conserve many of the sites degraded since the war and now threatened with total erasure from the palimpsest of the classic English countryside. Equally the lack of care or concern amongst country people for their local sites amazes him - "What have the Sussex Downsmen been doing?...". Preservation by record had taken place before some destruction but why not conservation in the first place, the threat too easily became an excuse to dig."

This, of course, points up one of the major differences between the archaeologist and the curator of the living landscape: in the last resort the former can say "okay, you win, we'll dig and record it, then you can have your extra grain/pine trees/gravel". The latter can only say

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"this is a rare piece of downland/peat bog/marsh, we can only plead that you conserve it intact for its intrinsic value, there is no compromise, simply to record it is pointless, its true value is as part of the living system of the planet which supports us". The archaeologist has an easy cop-out reluctantly (s)he can accept controlled destruction, it provides some enjoyable fieldwork, grist for the academic mill, a source of funds and kudos. I know, I have done it. For the ecologist or conservationist there is that awful fear that another piece of drainage or woodland clearance may mean another extinction, another species only known from the textbook or the taxidermist's skill.

As Greeves put it "Archaeologists are still collecting eggs not birdwatching'" Herein also is a factor telling against archaeologists in that they do not have that 'vital' element, neither the world or nature nor the human race depends on their knowledge, it is perceived as neither valuable, life-enhancing or life supporting.

Greeves proposes areas for the 90's in which archaeology could relate to wider conservation issues but his stress is on education or raising local awareness of the aesthetic or cultural value of the Past in the present landscape, Conservation is only mentioned in relation to archaeologically rich areas written off by ecologists and does not mention co-operation. By quoting Hardy's view of Egdon Heath and its antiquity he illustrates the use of the past as a counterbalance to the turbulence of the present, Hardy here also pre-figuring the views of his later social acquaintance Pitt Rivers who saw the Past as a means of calming pressures for rapid change and improvement in the common lot - evolution not revolution was what he considered archaeology showed to have characterised human development and be still the best course for the future.

At least Pitt Rivers was her putting his knowledge to work even if only to reinforce the status quo and a cosy view of the past. Today that is not what is needed, when some in other disciplines are saying that we cannot go on like this, we must radically alter human processes of exploitation, interference with eco-systems and use of material resources. Now we need conservation and non-invasive study of both archaeology and ecology to build up a time-picture of inter-related man-made and natural processes that are degrading the planet and threatening the life of our species and nature at large. That could itself be claimed as a contentious statement but there is surely enough evidence of change to require such study as check on whether these developments are linear, exponential or cyclical. To know what to plan for, now that we have the skill to prepare the future, we need to know what happened, where we stand against a longer timespan.

One area of particular concern in conservation circles is the fate of present day wetlands, something that equally has come to the fore in archaeological circles. As Coles stated recently "it is generally acknowledged that (wetlands) are the most threatened of all land forms wetlands reflect and document in their watery foundations varied combinations of major climatic and geological change alterations in the interaction of land and water and human interference with the landscape" (Coles 1986). Here is a particularly rich archaeological resource where checks can be made against data from less well preserved contexts since much nearer the totality of material culture survives set against its ecological background. The present wetlands are a bit like our version of the rain forests they produce "as much as eight times the volume of plants that a dryland (including cultivated fields) can, are capable of supporting and sheltering many forms of life (particularly marine life in the early stages of growth), or regulating the flow of freshwater (while storing and purifying it) of housing and feeding a myriad of permanent and transitory wildlife" (Coles *ibid*).

Such sites are of more than archaeological interest, and the archaeological data itself is of more than academic interest, for amongst the wealth of environmental material is a host of

indicators as to the natural world in which these sites existed; the very burial of the sites is a record of climatic change and they are encapsulated in yet longer sequences, the accumulations of part natural, part human agencies and an incomparable record of long term climatic or ecological change.

Pressure Groups such as Friends of the Earth are presently mounting a campaign for the preservation of wetlands from agricultural drainage, afforestation and peat cuttings, surely something the archaeological community should applaud but apparently with little visible input from it at this stage. Here surely is a common, if soggy, ground, a meeting place for 'west', where interests in conservation overlap in the way that Greeves hinted at. But it is surely more than simply an interest in the preservation of a landscape it is also that in such places the record of the past and present come together and provide us with the information we need to plan for the future and avoid an ecological Armageddon. Here is where archaeology could discover its soul and become something of vital significance, rising about the dictates of developer funding, market forces, the Heritage Industry and speak to a different audience than those who simply seek entertainment or the massaging of a corporate image. Raising an aesthetic awareness for the past in the landscape or understanding the processes in its creation could be a means to the end of conserving the planet. The preservation of a barrow or a crannog might actually affect our lives and that of future generations.

Christopher Sparey-Green

Coles J.M.: Precision, Purpose and Priorities in Wetland Archaeology in Antiquaries Journal 1986 Vol LXVI pt II 227-247.

Greeves T Archaeology and the Green movement: a case of 'Perestroika'. in Antiquity 63 (1989)

London Wall

ROMAN built up London Wall, A With his big bricks and his little bricks A Roman built up London Wall With its straw and its lime and its mortar and all,

Then he stood on the top, so stalwart and tall, On the big bricks and the little bricks, He stood on the top so stalwart and tall. With his spear and his shield and his helmet and

He looked down on London, all bustle and brawl And big bricks and little bricks, He looked down on London, all bustle and brawl, With its streets and its chimneys and markets and all.

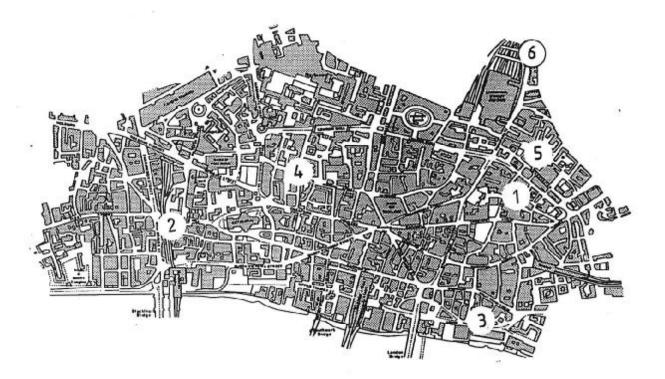
With its mansions, its rivers, its parks and Whitehall, And its big bricks and its little bricks, With its mansions, its rivers, its parks and Whitehall. Its prisons, its churches, its Tower and St. Paul.

"I've built up a Wall that never can fall, With my big bricks and my little bricks, I've built up a Wall that never can fall

But London laughed low and the for to crawl Through the big bricks and the latte bricks, London laughed low and began for to crawl To the North, to the West, to the South, East and all.

There came a great crack in the side of the Wall, In the big bricks and the little bricks. There came a great crack in the side of the Wall, And down fell the Wall and the Roman and all!

DUA EXCAVATIONS NEWS



Summaries of sites: March 1990

1 St Mary Axe

The fourth phase of excavation finished on the 16th March, after the excavation of a series of large pits. The main (only?) item of interest in the last few weeks was the skeleton of a large dog, dumped in the pit fills. The beast appears to have died whilst lying on its back and scratching itself under the chin (I)

The next phase of excavation ie expected to start in late May, but could be later as a result of delaid demolishing of the last standing buildings on the site.

Finds Report

A first look at the Roman painted wall plaster found in the second and third phases has pleced together a (painted) classical column, between panels of imitation breccia, as well as abstract design. No figures yet!

2 Fleet Valley

Both the Duffer's and Madeira Vaults excavations ended this month. In Duffer's reclamation dumps have been provisionally dated 1150-1350. A number of chalk foundations had been cut into these, the most westerly being supported on large wooden piles. Another was associated with a well-made chalk drain. A wattle-lined pit contained medieval shoes and a copper tweezers. It is expected that excavations will resume following demolition of the viaduct.

Skeletons of 20 individuals, including 3 foetuses, were excavated in Madeira vaults. The majority were severely truncated and there was some evidence of early grave robbing. Roman pits beneath the burials yielded a 1st century AD brooch and a leaden lampholder. The pits were cut into Roman reclamation dumps.

In McDaniel's, robbed-out walls of the post Gordon Riots prison building have been excavated. The wooden raft remained and was well preserved. Demolition and fire horizons sealed a robber trench from an earlier phase of the prison and which also contained a timber raft. Medieval dump/reclamation layers are presently being excavated.

An immediate return to Area 3 has been successfully negotiated. Work will concentrate on the section which will not be available during the post-demolition development phase. The previous constraints of water ingress are now less critical.

An evaluation of the applicability of the radar technique to areas of complex stratigraphy is now under way. This will use both radar and excavated data from the Fleet Valley. If the technique is successful, the copyright in any data-base arising from the evaluation will remain with the Museum of London.

3 Billingsgate Bath House

The Bath House

The Caldarium has now been fully recorded and the pilae reconstructed by Nimbus have been planned.

A second area of tessellated pavement (Area 1 on the plan) in the *Frigidarium* has been lifted and replaced on a D.P.C. The underlying mortar slab was recorded and sampled for mortar composition. This process was recorded on video. No post-conservation records have been made in the Frigidarium.

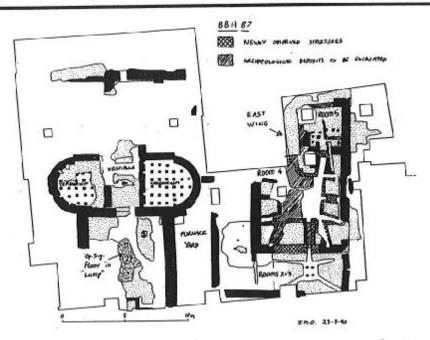
A conclusion is yet to be reached over the fate of the "Lump" (2 on the plan). Ron Harris (DUA) has provided an estimate for the cost of casting the *Opus Signinum* floor, for display. The floor could then be removed and the underlying deposits excavated to retrieve finds and environmental samples. English Heritage have requested a report to justify further excavation of this material.

The East Wing

Recording of the east wing continues room 4 (see plan) has been recorded, before the removal of 1960's concrete by Nimbus. That part of the original Roman structure which has been revealed so far indicates that the consolidation was carried out with little understanding of the interpretation of the Roman building.

The line of the south wall of room 4 can now be clearly determined, as can the radial layout of the hypocaust heating ducts, (see plan). Consent has been granted for the excavation of deposits filling the hypocaust ducts.

The exposed parts of room 5 have also been recorded and work has begun on the overlying deposits which will be partially excavated for finds and environmental data, and to define the northern and western extent of the room more clearly.



Plan of the bathhouse

FINDS REPORT

The excavation of deposits in the east wing will hopefully provide new dating evidence for the alterations to the structure.

4 50 Gresham Street

Two weeks of excavation took place in March. Deposits lay immediately below the basement slab, and consisted of a medieval chalk wall, a ?cellar and numerous pits cut into dark earth. Beneath this were thin layers under which was a gravelled surface from which a Roman coin was recovered. Brickearth separated this from the natural gravels. Conclusions drawn from this suggest the site lay open and unoccupied for a long while.

5 Cutlers Court (123-125 Houndsditch)

The site lies outside the city wall, to the north of Houndsditch. So far, the excavation has revealed a large of Roman and medieval pits, and two burials; one heavily truncated Roman mortar burial and the other a Roman burial redeposited in a medieval pit which appears to have been reinterred and laid out.

6 274-306 Bishopsgate

Work continues on both sites. The gravel path running north-south has been completely exposed, and the adjoining stake holes excavated. Three medieval burials and amedival timber-lined well have also been excavated. A series of curious circular features is visible in the natural sands and gravels. Initial investigations suggest that they may have occurred during the Ice Age (c.10,000 BC).

PRESS CUTTINGS

CITY'S ARCHAEOLOGICAL STOCK **DOWN TO 20 PER CENT**

Only twenty per cent of the City of London's varchaeological stock's now left underground, John Makoney, excavation officer with the Department of Urban Archaeology told a Museum of London day school.

He had explained how the developments within the city walls since Roman times had left layers of remains, how Victorian developers had made spectacular linds but had lost more than they recorded and how 20th century redevelopment with its deep foundations and cellars had stripped away much of the remains of the past.

When his department was set up at the Museum of London 15 years ago about 600 per cent of the Malparey. We financed 51 making was lift where redevelopers the had been laterally lives a video film revealed. In the past, daily rubbish was left when his department was set up at the Museum of London 15 years ago about 600 per cent of the

much of the remains of the past.

When his department was set up at the Museum of London 15 years ago about 60 per cent of the archaeological mound built up over a period of 2,000 years had gone. It had been between four and eight metres deep in the city and up to ten metres deep where the earth was waterlogged near rives.

The amount of the archaeological mound now removed could be as high as 80 per cent, said Mr.

Secure of the extensive work done by the department in many parts of the city and because of the expertise of the expertise of the department's staff, as 80 per cent, said Mr.

Even so, there could be

Even so, there could be some archaeological surprises: like the chapel that was discovered when the foundations were being dup for a development a and for a development at the junction of Leadenhall and Fenchurch Street, (the remains of the chapel have been relatined within the building but are not open to public view)and the Forman amphitheatre found under

London commissioned a feasibility study which presented a number of options for display...
Including a method of
reconstruction by projection
techniques. But we will have
to await the out come as the
public inquiry has rejected
the scheme put forward by
the Corporation, it could be
that more will be preserved
for public viewing in the
future."

Twentisth century site.

Archaeology

Mechanical quarrying endangers a vital source of ancient axes

By Norman Hammond, Archaeology Ceresponders

Some of Britain's oldest archaeology archaeology are seen as deader of decignation, according to a seen and other importance and other importance as a seen in report. Dating back to a recent report. Dating back to the contents that are should ask of the gravel by hard.

Mostler or report is recently and the contents falled as recently because the carrier workers not of the surface removal and the state. The recently are recently a recently because the carrier was the according to the fall of the surface and the recently and the recently

Yard investigates £40m silver hoard B) Our Art Market Correspondent TUNES: 8 3/90



Enid Hill marks a pot fragment in the museum for cataloguing. (205616)

History on dangerous ground?



Delicate 15th century German glass found east of the old City wall near

Archaeologists from the Museum of London are steeling themselves to defend the British queen Boudicca who rampaged through the City almost 2,000 years ago. Reporter Tim Ross went to their Barbican bunker to find out why.

been the happy hunting ground of archaelogists for at least 15 years. The work of the Museum of London's unit, set up in 1974, has gone hand in hand with the development boom. Every

Now there are moves afoot to top-ple archaeology's ivory tower and lay more commercial foundations

years ago, a moment in someone's life becomes an entry on a page.

Occasionally a spectacular find will grab the headlines. A recent discovery that

THE City of London has for its work, but there are implica-been the happy hunting tions that trouble the unit.

Archaeological consultants are already spilling their services to companies and

development boom. Every building torn down means another doorway opened to the past.

Much of their work is mundane. A fragment is uncovered, sent to the lab in the basement of the Museum of London the past. years ago, a moment in someone's life becomes an entry on a page.



Scraping away layers of history in Leadenhall Street. (205424)

lightened the hearts of museum academics was a German glass from the middle ages. "We now know more about this type of glass than the Germans," said one, proudly.

A good deal of co-operation is required before the trowels and tape measures come out. All planning applications go through Guildhall where an officer has responsibli-

ouit. All planning applications go through Guildhald where an officer has responsibility for liaising with the museum.

The archaeologists will then survey the area and report what they might find.

A period of negotiation follows with the developers who will finance the dig. Time limits and costs are agreed and then there is a race against the clock.

Fortunately most companies accept the situation and some such as MEPC have discovered that archaeology can be a useful tool for public relations.

Managing director James Tuckey said in the introduction to a lavish brochure: "We believe that preserving the history and characteristics of the City of London is of great importance to the City."

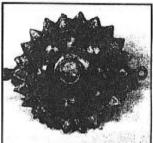
Not all companies agree. Senior excavations officer Simon Thompson said: "in general we get on very well, but certain developers are more than 400 sites since 1974 and while cutside competitors may but in a lower bid the results are not likely to be as good. Another long-term difficult is what happens to the material found Each site we do is like a piece in a big jigswam, and has the power to impose conditions when granting applications to ensure work is carried out.

The result is an increasingly detailed picture of how our ancestors lived and how

work is carried out.

The result is an increasingly detailed picture of how our ancestors lived and how the city developed. But all this could change because of money.

The unit is currently talking with Cus-toms and Excise about the nature of its work. If it decides the archaeologists are



A first or second century enamelled copper brooch found near St Paul's. (205623)

providing a service, VAT will have to be

On top of that the Government grant of 5500,000 for publication is expected to diminish from 1991 making outside sources of income vital. But while the unit embraces the prospect of more commercial work, such as charging for photographs and giving lectures, a more insidious problem is emercine. lem is emerging.

Mr Thompson believes signs of what will happen are already visible. "The Oxford unit has carried out work in Southwark and it was a foul-up." And he argues that when competitive tendering was introduced in the United States in the 1970s the quality of work fell until universal standards were agreed.

From the outside it may look like a cle sed shop. But much of the unit's work is not commercial. It would be a shame it Boudica's charlot tracks were lost for the sake of a few pounds.

clements of the historic landscape.
Without new legislation there is a grave danger that deregulation of commons to permit development will increase and that some of our best preserved ancient monuments will as a result be destroyed. Yours faithfully, HENRY CLEERE, Director, Council for British Archaeology, 112 Kennington Road, SE11.
March 20.

Common land threat From the Director of the Council for British Archaeology Sis, In its 1987 election minisfesto

egislation relating to common and in England and Wales. It has had before it since 1986 the report of the Common Land Forum,

he present Government com ed itself to the introduction

THES 26-1-90 A-

Redevelopment plans for the ROH at Covent Garden are bedevilled by a row over the excavation of important remains. Jean Stead reports

oper the 90 phantom London Saxon

COVENT

26/3/50 100

Bard's birthday opening for Globe Theatre in jeopardy

By Sarah Kitches

RECONSTRUCTION WORK
on the Globe Theatre will come to an abrupt halt next week after developers failed to raise the shops, flats and a pub. £5m needed to finance the second phase of the ambitious £20m project. So far £4m has been raised to

So far \$4m has been raised to recreate the Shakespearean theatre—built in 1599 only to be gutted by fire 14 years later—along the South Bank of the Thames.

The International Shakespeare Globe Centre, which is developing the site, is currently trying to put together a new deal to allow work to continue.

new deal to allow work to continue.

But even if the additional money can be founds, the project's chief architect, Theo Crosby, believes work on the site will not restart for "some months", putting the 23 April 1992 completion date (Shake speare's birthday) in serious gogardy.

serious jeopardy.

"We were due to start the social phase shortly, but just now we have no idea of when that will be. It is a question of getting that £5m," said Crosby.

The new Globe is the centrepiece of the Globe Centre,

which also uncludes the recreation of an Inigo Jones theatre and the construction of shops, flats and a pub. Contractor Lovell has been on-site since June excavating a

on-site since June excavating a large basement and constructing a raft slab within an existing diaphragm wall for the new Globe. The second stage will include constructing a reinforced concrete frame, stairs and intermediate level floor slabs up to and including the pizzas slab.

to and including the piazza stab.

The second phase is the costliest, because it is an engineering project that must be completed in one go.

"The engineering contract is one bight. After that things will be a bit easier and we can go about the more at a time.

about them one at a time.
"The international fund raising effort will be stepped up during the next few months," added

Crosby.

It is more than 20 years since
American film director and actor
Sam Wanamaker began his
campaign to reconstruct the
Globe only yards away from its

ADIG

et us consider, briefly, what the late Walt Disney has to offer the late Walt Disney has to offer the late Waltium Shakespeare, Within a small area south of Southwark Bridge we have no fewer than three rival excavations. There is Lerd Hanson in more-or-less proud possession of the original Globe site; there is the Rose revived; and there is Sam Wanamaker, who, at considerable financial and caroer cost, has spent 20 years trying to bring Shakespeare back to life in its original, or near-original, setting.

The danger is that the three projects will degenerate into bickering on separate committees, if not internocine warfare. What we need, adapted from old Walt in Floridg and California, is Shakespeareland an upmarket intellectual and academic artistic. Dispeyland where tourists and scholars allike can spend a day and/or night surrounded by Shakespearean theatres, muscums and perhaps even a 16th century-style restaurant, Ideally, Wanamaker should be asked to preside over a acheme which would unite the individual sites under one organization while allowing each to preserve its original intentions.



what the Venerable Bode (613) Signaturable for the described for Lorden as "an emporium of Landen as "an emporium of Landen as "an emporium of Landen as "an emporium of the readenst period comments and fine first cliues of the Saxon for an "a previously pieced a together from documents and respected from documents and respected from documents and respected from documents and supervisional profits of the first clius of the Saxon Landen of the Saxon Landen as just published a book on the discovering published a book on the discovering the first contained of mick Saxon Landen as a seed of the standard of the Saxon landen and seeds of fruit and cereals, showing that a market evided in Covert Garden over the Saxon lander over the Saxon lander

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