

# Association for Environmental Archaeology Newsletter 69 (August 2000)

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Copy dates for Newsletter: 20th of the following months - January / April / July / October

Edited by Wendy Carruthers and Vanessa Straker

Items for the Newsletter may be submitted on 3.5" floppy disks in IBM-PC format as WordPerfect, Word or ASCII files, Fax or e-mail. Items in typescript or neat manuscript should be sent to Wendy Carruthers (e-mail addresses: [wendy.carruthers@virgin.net](mailto:wendy.carruthers@virgin.net) ; [V.Straker@Bristol.ac.uk](mailto:V.Straker@Bristol.ac.uk) ; FAX: 0117 928 7878)

V. Straker, School of Geographical Sciences, University of Bristol, University Rd., BRISTOL, BS8 1SS.

Wendy Carruthers, Sawmills House, Castellau, Llantrisant, Mid Glamorgan CF72 8LQ (Tel: 01443 223462).

AEA Membership Secretary: Ruth Pelling, Oxford University Museum of Natural History, Parks Road, Oxford OX1 3PW, UK

Tel: +44 1865 272 983 - Fax: +44 1865 272 970 - e-mail: [ruth.pelling@oum.ox.ac.uk](mailto:ruth.pelling@oum.ox.ac.uk)

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## EDITORIAL

### WARNING! - IMPORTANT NOTIFICATION OF CHANGES TO THE NEWSLETTER

As from February 2001 the current issue of the Newsletter will be put onto the AEA website ([www.envarch.net](http://www.envarch.net)). Please note that from that date onwards paper copies of the Newsletter

will only be sent to Members who have informed us that they wish to receive them. Forms will be included at the end of this and the next issue of the Newsletter and one of these must be returned to us before 1st February 2001 if you want to continue to receive paper copies of the Newsletter. This change is being introduced following discussions at the Guildford AGM and the last Committee meeting. A notice inviting your views was also put in the May Newsletter. If as many members as possible can download their quarterly Newsletters from the website, it will help the AEA to keep printing and postage costs down. Because of these changes, we have made a few alterations to the format of the Newsletter. We welcome members comments and suggestions. We would also like to encourage the inclusion of more photographs (see Archaeobotanical Work Group item) and drawings to brighten up the Newsletter's image.

Please note that the Newsletter only publishes job vacancies specifically sent to us for inclusion. Please also consult the AEA website [www.envarch.net](http://www.envarch.net) for job vacancies.

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## PEOPLE

### Umberto Albarella

Umberto will be leaving the English Heritage contract post at Birmingham in November 2000 to take up a four year research post funded by AAHRB at Durham university to carry out a research project, together with Keith Dobney and Peter Rowley Conwy, into pigs.

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## NEWS FROM THE COMMITTEE

### POSTAGE AND PACKAGING FEE DROPPED FOR OVERSEAS STUDENTS

At the Guildford AGM, the committee was asked to review its decision that in 2001 the AEA would charge overseas student members £4 for postage and packaging of the journal and quarterly newsletters. The committee has agreed that for 2001, overseas student members will not be charged postage and packaging. In order to help the AEA cover these expenses, we encourage members to download the 2001 newsletters from our new web site ( <http://www.envarch.net> ), rather than opt to continue to receive a printed copy of the newsletter.

### VISIT OUR NEW AEA WEBSITE!!

<http://www.envarch.net>

The AEA has begun to update our website for 2000. The committee has hired [Mark Beech](#) to construct and maintain this website. There is a wealth of information about the AEA, forthcoming conferences, current job opportunities, and other relevant web sites related to environmental archaeology. We hope that it will be useful to members and non-members alike. We also hope to add more to it over the coming months.

If members have comments or suggestions for the web page please feel free to e-mail these to the AEA Secretary, Wendy Smith, at [wendy.smith@english-heritage.org.uk](mailto:wendy.smith@english-heritage.org.uk).

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## CONFERENCES AND MEETINGS

## **AEA-YORKSHIRE MUSEUM ONE-DAY MEETING**

**Wednesday October 25th 2000**

**Tempest Anderson Hall, Yorkshire Museum, Museum Gardens, York**

The AEA annual one-day meeting will be held in conjunction with the Yorkshire Museum and the Centre for Human Palaeoecology, University of York, on October 25th 2000. In common with previous years, the meeting will have an open programme of short contributions, and we particularly welcome contributions from research students, and other colleagues with less conference experience. Papers will include summaries of current projects and essays intended to provoke discussion. Topics will include archaeobotany at Catal Huyuk; bone pathology at Dudley Castle, and current research at the Yorkshire Museum. Contributors will be asked to provide short abstracts in advance of the meeting, and these will be collated and circulated to all who attend.

The meeting will start with coffee at 10.30 for a prompt start at 11a.m. There will be a break for lunch (not provided - York has plenty of eateries), and we will finish about 16.30. A small charge (£6) will be made to cover beverage and photocopying costs. The Yorkshire Museum is about 10 minutes walk from the rail station, between the Kings Manor and the river. For maps, see [www.york.ac.uk/np/maps/](http://www.york.ac.uk/np/maps/)

There is a booking form at the back of this Newsletter. Please book by the beginning of September if you wish to give a paper, and the end of September if you do not: we need numbers (and cash) in advance to ensure enough coffee and biscuits! If you need any further information, please contact one of the organisers:

Terry O Connor, Dept. of Archaeology, University of York, Kings Manor, York YO1 7EP; email: [tpoc1@york.ac.uk](mailto:tpoc1@york.ac.uk) . Tel. (0)1904-433946.

Allan Hall, EAU, Dept. of Biology, University of York, PO Box 373, York YO10 5YW; email: [biol8@york.ac.uk](mailto:biol8@york.ac.uk) . Tel. (0)1904-433851.

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## **ASSOCIATION FOR ENVIRONMENTAL ARCHAEOLOGY - IRISH MEETING, 25th**

**November 2000**

**School of Archaeology and Palaeoecology, Queens University of Belfast.**

A meeting for environmental archaeologists working in Ireland is planned for Saturday 25th November 2000, at Queens University of Belfast. Offers of short (10-15 minute) contributions would be very welcome. The theme of the meeting will be "Recent Research in Environmental Archaeology in Ireland", although contributions on British sites or wider environmental archaeological or palaeoecological issues are also welcome. The meeting is intended to create a forum for palaeoenvironmentalists working in Ireland, as well update the palaeoenvironmental and wider archaeological community of latest research. If you would like to offer a contribution, please email us ([N.Whitehouse@qub.ac.uk](mailto:N.Whitehouse@qub.ac.uk) ) or post the form at the end of this Newsletter.

### **Organisers:**

Dr Finbar McCormick (QUB), Eileen Reilly (Margaret Gowen & Co. Ltd.) and Dr Nicki Whitehouse (QUB)

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## **AEA & NABO**

**ASSOCIATION FOR ENVIRONMENTAL ARCHAEOLOGY & NORTH ATLANTIC  
BIOCULTURAL ORGANISATION**

**Atlantic Connections and Adaptations Economies, Environments and Subsistence  
in the North Atlantic Realm**

## 29th to 31st March 2001, University of Glasgow

### Notice and Second Call for Papers

#### Theme:

The North Atlantic is both a barrier and routeway that separates and connects human populations in lands bordering the ocean. Maritime communications have played a vital role in shaping both human cultures and the biogeography of the region. The aim of this meeting is to explore the diversity of connections and adaptations in the North Atlantic Realm. Key issues to be addressed include:

- The origins of the Atlantic flora and fauna
- The introduction of non-indigenous flora and fauna
- The spread of particular cultural packages and their local adaptations
- The establishment and development of exchange and trade networks
- The influence of climatic variability and episodic extreme events

While the focus of the conference lies in the North Atlantic Realm, the organisers would welcome relevant papers that provide either a comparative or contrasting analysis of these issues.

Intending contributors should submit a title and brief abstract by the 1st December 2000, preferably by email to either of the organisers. Guidelines for contributors are to be found on the Web page (address given below).

#### Meeting details

The meeting will be held in the Western Infirmary Lecture Theatre, University of Glasgow. Accommodation will be on a B&B basis in Dalrymple Hall (£22.50 per person per night). Social events will include a wine reception and a conference dinner and ceilidh. There will be a one day field excursion. For further details see the conference Web page:

<http://www.arcl.ed.ac.uk/atlantic/>.

#### Organisers

Dr Rupert Housley, Department of Archaeology, University of Glasgow, Gregory Building, Lilybank Gardens, Glasgow G12 8QQ. email: [r.housley@archaeology.gla.ac.uk](mailto:r.housley@archaeology.gla.ac.uk)

Dr Geraint Coles, Department of Archaeology, University of Edinburgh, The Old High School, Infirmary Street, Edinburgh EH1 1LT. email: [gcoles@hsy1.ssc.ed.ac.uk](mailto:gcoles@hsy1.ssc.ed.ac.uk)

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## BRITISH ARCHAEOLOGICAL ASSOCIATION

### Programme of Meetings 2000-2001

Meetings are held in the rooms of the Society of Antiquaries of London, Burlington House, Piccadilly, London W1V 0HS. Tea is served from 4.30 PM. and the Chair is taken at 5.00 PM.

Non-members are welcome to attend occasional lectures but they are asked to make themselves known to the Hon. Director on arrival, and to sign the visitors' book.

#### 4 October 2000

'The settlement at Portmahomack, Easter Ross, and the conversion of the Picts' by Professor Martin Carver. The lecture will be preceded by the Association's Annual General Meeting

**1 November 2000**

'Society Ladies: women in archaeological societies 1840-1940'  
by Dr Linda Ebbatson, Ochs Scholar, 1997

**6 December 2000**

'Channel Island Churches: their architecture and archaeology'  
by Dr Warwick Rodwell

**3 January 2001**

Millennium Review Lecture Series - 5

'Apocalypse Illustration in 13th and 14th-century England'

by Professor Nigel Morgan. The lecture will be followed by the Association's Twelfth-Night Party

**7 February 2001**

'The ins and outs of English Parish Churches: doors and porches in the 12th century'

by Dr Carol Davidson Cragoe

**7 March 2001**

'Letters and Words: a new look at English medieval inscriptions'

by Rev. Jerome Bertram

**4 April 2001**

Millennium Review Lecture Series - 6

'Medieval Stained Glass: recent and future trends in scholarship'

by Professor Richard Marks

**2 May 2001**

Millennium Review Lecture Series - 7

The first Donald Strong Memorial Lecture 'The Arts in Roman Britain'

by Dr Martin Henig. The lecture will be followed by the President's Reception

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**ARCHAEOBOTANICAL WORKGROUP MEETING AT YORK**

**12 July 2000**



The vagaries of Virgin trains meant that nearly all of us arrived late for this workgroup meeting. Luckily Allan was on hand to supply much needed coffee and great biscuits. The preliminaries over we proceeded to the laboratory where Allan gave an introduction to the identification of mosses, including information on useful references. We then set about examining modern material and archaeological specimens from Coppergate and Ireland.

The first distinction to make is whether the moss is an acrocarp (no side-branches) or a pleurocarp (branched). In addition *Sphagnum* spp. can be easily distinguished to genus level as the cell structure of the leaves is very distinctive. However, it is difficult to distinguish between different *Sphagnum* species, even when fresh, although two species *S. papillosum* and *S. imbrication* are distinctive. The former has dots along the margin of the leaves while the latter has comb-like teeth.

Reference material can be kept in paper envelopes, where if specimens are kept dry they should keep indefinitely. Specimens can then be wetted and mounted in water on slides for comparison with archaeological material.

When examining samples containing mosses it is important to be aware of the possibility of contamination. Samples stored over a long period may have mosses growing on the top of the samples, especially where the samples have been stored in boxes that have not been completely filled. The way round this is problem is the store the samples in sealed plastic bags within the boxes, excluding as much air as possible.

After lunch, during which we had the pleasure of seeing a Mother duck with her fearless new brood we had another short session at the microscopes before de-camping to Askham Bog, a lovely nature reserve on the outskirts of York. This involved a somewhat hair-raising journey in a Taxi for some of us. Under instructions to follow Allan closely, the taxi driver nearly drove into the back of Allan at one point before he realised he was not taking part in a film car chase.

Once at the bog we reconvened and were lucky enough to have Harry Kenward along to identify the colourful insect life and provide expert advice on mosquitoes and clegs. Clegs are not Creatures from the Black Lagoon by the way but horse flies.

The Askham Bog Nature reserve managed is jointly by English Nature and the local Wildlife

Trust. The aim is to provide a mosaic of different habitats in order to ensure that the floral and faunal diversity is maintained. The bog has a good Flandrian sequence, although the upper portion is disturbed as a result of peat cutting dating from the Roman period.

At the time of our visit orchids (*Dactylorhiza* sp.) and yellow loosestrife (*Lysimachia vulgaris*) were flowering in the areas of the bog kept free from scrub and woodland. Within the woodland established on the bog were three-nerved sandwort (*Moehringia trinerva*), climbing corydalis (*Ceratocarpus claviculata*), and skullcap (*Scutellaria galericulata*) as well as some *Sphagnum* sp. and ferns. The dikes that dissect the bog in places, and were probably cut in the Roman or medieval period so that peat could be punted out from the bog, often have a wonderful display of water violet (*Hottonia palustris*). This was not in flower at the time of our visit, but the delicate foliage was evident.

Altogether we had a most productive and delightful day. Many thanks to Allan Hall for his hard work and patience.

Gill Campbell 17th July 2000

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## TRAVEL GRANTS

### ANNOUNCEMENT OF TRAVEL GRANT FOR UK CITIZENS

#### The Winston Churchill Memorial Trust Year 2001 Travelling Fellowship

Applications are invited from British citizens for overseas stays of between 4-8 weeks. Relevant award themes include Project in Australia, Farmers/Farm Workers/ Horticulturalists, Foresters and others involved in the rural economy, artists and craftsmen, science and technology.

For more information write to:

The Winston Churchill Memorial Trust  
15 Queen's Gate Terrace  
London  
SW7 5PR  
Tel: 020 7584 9315  
Fax: 020 7581 0410  
E-mail: [office@wcmf.org.uk](mailto:office@wcmf.org.uk)  
Website: [www.wcmf.org.uk](http://www.wcmf.org.uk)

Application deadline 24 October 2000.

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## PUBLICATIONS

### [BOOKS](#) - [THESIS](#) - [CHAPTERS](#) - [ARTICLES](#)

We are very grateful to James Greig for the following information:

James says, Many thanks to Rene Cappers, Simone Riehl, Julian Wiethold and others who sent in references. Most of the publications can be obtained through Oxbow Books ( [www.oxbowbooks.com](http://www.oxbowbooks.com) )

If you like reading about other peoples' publications, why not send in some of your own?  
Please send references to [greigjira@bham.ac.uk](mailto:greigjira@bham.ac.uk) .

## BOOKS

- S. Anderson (1999) *Current and recent research in Osteoarchaeology 2*. Oxbow, Oxford, 61 pp. paperback £9.95
- H. Baumann (2000) *Pflanzenbilder auf griechischen Münzen [Plant illustrations on Greek coins]*. Hirmer, 79 pp. £19.50
- M. Bell, A. Caseldine and H. Neumann (2000) *Prehistoric intertidal archaeology in the Welsh Severn Estuary*. (CBA Research Reports, 120) CBA, York, 409 pp. £42 ISBN 1872414117
- P. Della Casa (1999) *Prehistoric Alpine Environment*. (UPA, 55) Rudolf Habelt, Bonn, 308 pp. paperback £32.50
- A. Hyland (1999) *The horse in the middle ages*. Sutton, Stroud, 180 pp. hardback £20
- R. Jurmain (1998) *Stories from the skeleton; behavioural reconstruction in human osteology*. Gordon & Breach, Amsterdam, pp. £25; ISBN 9057005417
- J.P. Mallory and V.H. Mair (2000) *The Tarim Mummies*. Thames and Hudson, London, 352 pp. £28 ISBN 0500051011
- M. Mouton (1999) *Mleiha I: Environnement, stratégies de subsistance et artisanats [Mleiha I, environment, subsistence strategies and crafts]*. Boccard, 292 pp. paperback £34.50
- E. Panagiotakopulu (2000) *Archaeology and entomology in the eastern Mediterranean*. (BAR, S836) BAR, Oxford, 146 pp. £46 ISBN 1841711292
- L. Peña-Chocarro (1999) *Prehistoric agriculture in southern Spain during the Neolithic and the Bronze Age*. (BAR, S818) British Archaeological Reports, Oxford, 167 pp. paperback £28
- S. Riehl (1999) *Bronze Age environment and economy in the Troad: the archaeobotany of Kumtepe and Troy*. (BioArchaeologica, 2) Mo-Vince Verlag, Tübingen, 268 pp.
- P. Rowley-Conwy (2000) *Animal bones, human societies*. Oxbow, Oxford, 189 pp. paperback, £35
- L. Scheuer, S. Black and A. Christie (2000) *Developmental juvenile osteology*. Academic Press, London, 608 pp. [illustrated guide to developing human skeleton]; hardback £99.95
- A.H. Simmons (1999) *Faunal extinction in an island society: pygmy hippo hunters of Cypru*. (Interdisciplinary Contributions to Archaeology) Kluwer/Plenum, Amsterdam/New York, pp. ISBN 0306 460 882
- Y. Tzedakis and H. Martlew (1999) *Minoans and Mycenaeans: flavours of their time*. Greek Ministry of Culture, 287 pp. exhibition catalogue; paperback £32.00

## THESIS

- S. West (1997) *Geochemical and palynological signals for palaeoenvironmental change in south-west England*. doctoral thesis, Plymouth University

## CHAPTERS

R.T.J. Cappers (1999a) Archaeobotanical evidence of Roman trade with India. In H. P. Ray (ed.), *Archaeology of seafaring*. Pragati, Delhi pp. 51-69.

R.T.J. Cappers (1999b) The archaeobotanical remains. In S. E. Sidebotham and W. Z. Wendrich (eds.), *Berenike 1997; report of the 1997 excavations at Berenike and the survey of the Egyptian Eastern Desert, including excavations at Shenshef*. Research school of Asian, Afrocan and Amerindian studies (CNWS), Leiden university, Leiden pp. 299-426.

R.T.J. Cappers, S. Bottema and H. Woldring (1998) Problems in correlating pollen diagrams of the near East: a preliminary report. In A. B. Damania, J. Valkoun, G. Willcox, et al. (eds.), *The origins of agriculture and crop domestication*. (Genetic resources conservation program, division of agriculture and natural resources, University of California Report 21) ICARDA, IPGRI, FAO, UC/GRCP, Aleppo, Syria pp. 160-169.

D.J. Charman, B.R. Gearey and S. West (1998) New perspectives on prehistoric human impact on the uplands of Devon and Cornwall. In M. Blacksell, J. Matthews and P. Sims (eds.), *Environmental management and change in Plymouth and the south-west*. Plymouth University Press, Plymouth pp. 1-19.

M. Ciaraldi and J. Richardson (2000) Food, ritual and rubbish in the making of Pompeii. In G. Fincham, G. Harrison, R. R. Holland, et al. (eds.), *TRAC 99: Proceedings of the 9th annual theoretical Roman archaeology conference*. Oxbow, Oxford . (£16 ISBN 1842170074)

P. Collins and P. Halstead (1999) Faunal remains and animal exploitation. In P. Halstead (ed.), *Neolithic society in Greece*. Sheffield University Press, Sheffield . (£14.95)

W. Dörfler and J. Wiethold (2000) Holzhohlen aus den Herdgruben von Rennfeueröfen und Siedlungsbefunden des spätkaiserzeitlichen Eisengewinnungs- und Siedlungsplatzes am Kammerberg bei Joldelund, Kr Nordfriesland [Charcoal from the excavation of hearths from the late Roman period ironworking and settlement site of Kammerberg...]. In A. Haffner, J. Hauke and J. Reichstein (eds.), *Frühe Eisengewinnung in Joldelund, Kr. Nordfriesland*. (Universitätsforschungen zur prähistorischen Archäologie 59) Habelt, Bonn pp. 217-262.

R. Neef (2000) Umwelt und Landwirtschaft [Environment and agriculture]. In H. Parzinger and R. Sanz (eds.), *Das Castro von Soto de Bureba; archäologische und historische Forschungen zur Bureba in vorrömischer und römischer Zeit*. Leidorf, Rahden/Westf pp. 219-239.

S. Stallibrass (2000) Cattle, culture, status and soldiers in northern England. In G. Fincham, G. Harrison, R. R. Holland, et al. (eds.), *TRAC99: Proceedings of the 9th annual theoretical Roman archaeology conference, Durham 1999*. Oxbow, Oxford . (£16 ISBN 1842170074)

S.M. Valamoti (1999) Charred plant remains from Makryalos. In P. Halstead (ed.), *Neolithic Society in Greece*. Sheffield University Press, Sheffield . (£14.95)

J. Wiethold (2000) Ackerbau und Umwelt des spätkaiserzeitlichen Eisengewinnungs- und Siedlungsplatzes am Kammerberg bei Joldelund, Kr. Nordfriesland [Farming and environment at a late Roman period ironworking and settlement site at Kammerberg, Joldelund, Nordfriesland, Germany]. In A. Haffner, J. Hauke and J. Reichstein (eds.), *Frühe Eisengewinnung in Joldelund, Kr. Nordfriesland*. (Universitätsforschungen zur prähistorischen Archäologie 59) Rudolf Habelt, Bonn pp. 101-146.

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V. Andrieu, J.-L. de Beaulieu, P. Ponel, et al. (1997) Les distorsions de l'enregistrement pollinique de l'histoire de la végétation du dernier cycle climatique: exemples de séquences

lacustres du sud de la France [pollen representation in Holocene vegetation history from lake sequences from southern France]. *Geobios* MS 21: 195-202

V. Andrieu-Ponel, P. Ponel, H. Bruneton, et al. (2000) Palaeoenvironments and cultural landscapes of the last 2000 years reconstructed from pollen and coleopteran records in the lower Rhône Valley, southern France. *The Holocene* 10(3): 341-355

V. Andrieu-Ponel, P. Ponel, A.J.T. Jull, et al. (2000) Towards the vegetational reconstruction of the lower Provence: two new pollen profiles from Marais des Baux. *Vegetation History and Archaeobotany* 9(2): 71-84

S.C. Anton and G.M. Polidoro (2000) Prehistoric radio-ulnar synostosis: implications for function. *International Journal of Osteoarchaeology* 10(3): 189-197

M.R. Chapman and N.J. Shackleton (2000) Evidence of 550-year and 1000-year cyclicities in North Atlantic circulation patterns during the Holocene. *The Holocene* 10(3): 287-291

B. Charles (1999) animal bone. *Oxoniensa* 64: 201-222 (in Cromerty, AM et al, The excavation of a late Iron Age enclosed settlement at Bicester Fields Farm, pp 153-233.)

M. Ciaraldi (2000) Drug preparation in evidence? An unusual plant and bone assemblage from the Pompeian countryside, Italy. *Vegetation History and Archaeobotany* 9(2): 91-98

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B.R. Gearey, D.J. Charman and M. Kent (2000a) Palaeoecological evidence for the prehistoric settlement of Bodmin Moor, Cornwall, southwest England. Part 2 Land-use changes from the Neolithic to the present day. *Journal of Archaeological Science* 27: 493-508

B.R. Gearey, D.J. Charman and M. Kent (2000b) Palaeoecological evidence for the prehistoric settlement of Bodmin Moor, Cornwall, southwest England. Part 1 the status of woodland and early human impacts. *Journal of Archaeological Science* 27: 423-428

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B. Glencross and P. Stuart-Macadam (2000) Childhood trauma in the archaeological record. *International Journal of Osteoarchaeology* 10(3): 198-209

S. Hamilton-Dyer (1999) Animal bone. *Oxoniensa* 64: 263-269 (in Pine, J et al The excavation of medieval and post-medieval features at the rear of 42c Bell Street, Henley, Oxfordshire, pp 255-274)

A.J. Howard, D.H. Keen, T.M. Mighall, et al. (2000) Early Holocene environments of the river Ure near Ripon, North Yorkshire, UK. *Proceedings of the Yorkshire Geological Society* 53(1):

31-42

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S. Jahns (2000) Late-glacial and Holocene woodland dynamics and land-use history of the lower Oder valley, northeastern Germany, based on two AMS 14C dated pollen profiles. *Vegetation History and Archaeobotany* 9(2): 111-123

R.A. Jones (1998) Focused microwave digestion and the oxidation of palynological samples. *Review of Palaeobotany and Palynology* 103: 17-22

C.J. Lentfer and W.E. Boyd (2000) Simultaneous extraction of phytoliths, pollen and spores from sediments. *Journal of Archaeological Science* 27: 363-372

A.E.W. Miles (2000) Developing stages of subacromial humeral-impingement facets in the skeletal remains of two human populations. *International Journal of Osteoarchaeology* 10(3): 161-176

P.J. Munson (2000) Age-related differential destruction of bones and its effect on archaeological mortality profiles of domestic sheep and goats. *Journal of Archaeological Science* 27: 391-407

D. Munsterman and S. Kesholt (1996) Sodium polytungstate, a new non-toxic alternative to bromoform in heavy liquid separation. *Review of Palaeobotany and Palynology* 91: 417-422

T. Nagakawa, E. Brugiapaglia, G. Digerfeldt, et al. (1998) Dense-media separation as a more efficient pollen extraction method for use with organic sediment/deposit samples: comparison with the conventional method. *Boreas* 27: 15-24

T. Nakagawa, J.-L. de Beaulieu and H. Kitigawa (2000) Pollen-derived history of timber exploitation from the Roman period onwards in the Romanche valley, central French Alps. *Vegetation History and Archaeobotany* 9(2): 85-89

M. Ohlson and E. Tryterud (2000) Interpretation of the charcoal record in forest soils: forest fires and their production and deposition of macroscopic charcoal. *The Holocene* 10(4): 519-526

R. Pelling (1999) Charred plant remains. *Oxoniensa* 64: 222-223 (in Cromerty, AM The excavation of a Late Iron Age enclosed settlement at Bicester Fields Farm, pp 153-233)

A.J. Plater, B.P. Horton, E.Y. Haworth, et al. (2000) Holocene tidal levels and sedimentation rates using a diatom-based palaeoenvironmental reconstruction: the Tees estuary, northeastern England. *The Holocene* 10(4): 441-452

S. Riehl (1999) Archäobotanik in der Troas [Archaeobotany in the Troad]. *Studia Troica* 9: 367-409

D.R. Schlezinger and B.L. Howes (2000) Organic phosphorus and elemental ratios as indicators of prehistoric human occupation. *Journal of Archaeological Science* 27: 479-492

J.W. Verano, L.S. Anderson and R. Franco (2000) Foot amputation by the Moche of ancient Peru: osteological evidence and archaeological context. *International Journal of Osteoarchaeology* 10(3): 177-188

J. Virkanen (2000) The effects of natural environmental changes on sedimentation in Lake Kuttanen, a small closed lake in Finnish Lapland. *The Holocene* 10(3): 377-386





A map and programme will be sent to those who return the form. The cost of the meeting will be £ 5.00, which should be included with this form. This includes programme, abstracts, tea, coffee and biscuits. Cheques should be made payable to "Queens University of Belfast".

Please complete and return to:

Dr Nicki J. Whitehouse, School of Archaeology and Palaeoecology, Queens University of Belfast, Malone Road, Belfast BT7 1NN - email: [N.Whitehouse@qub.ac.uk](mailto:N.Whitehouse@qub.ac.uk)

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