

Association for Environmental Archaeology Newsletter 67 (February 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; 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: Becky Nicholson, Department of Archaeological Sciences, University of Bradford, BD7 1DP, U.K. e-mail: r.a.nicholson@bradford.ac.uk

EDITORIAL

We would like to wish everyone a Very Happy New Millennium!

This first issue of the year 2000 contains further details about the Annual Conference in Guildford (April 14th-16th) and a booking form - please book early. There is also information about the AGM and Committee elections which will be held during the conference.

ERRATUM: MEMBERSHIP INTERESTS LIST

Our apologies to Greig Campbell for leaving him out of the 1999 Membership Interests List. His details are as follows:

CAMPBELL, Mr G.E., 150 Essex Road, PORTSMOUTH PO4 8DJ. Taphonomic processes; recovery methods; applied statistics.

CHANGES OF ADDRESS / APPOINTMENTS

Alison Locker has moved to: 6 Lacets St Leon, Perigord 1, Appt 207, MC 98000, Monaco. Tel: (mobile) +377 (0) 616 772 788. E-mail: alocker@monaco.mc

Nicki Whitehouse has been appointed Lecturer in Palaeoecology at Queens, Belfast. As of the 14th February 2000 her new address will be:

School of Archaeology and Palaeoecology
Queens University of Belfast
Malone Road
Belfast
BT7 1NN
Email: N.Whitehouse@qub.ac.uk

Marina Ciaraldi has taken up the position of environmental archaeologist at Birmingham University Field Archaeology Unit (BUFAU).

Wendy Smith will take up the post of English Heritage contract archaeobotanist at Southampton University in February 2000.

Andy Fairbairn

Is now at: Catalhoyuk Research Project, Dept. of Archaeology, Downing Street, Cambridge, Tel: 01670 531902, e-mail: andyfairbairn@hotmail.com. Home address: 45 Riverside Avenue, Guidepost, Choppington, Northumberland NE62 5PP.

Simon Davis has moved to:

Institut Português de Arqueologia
Av. Da India 136
P-1300
Lisbon
Portugal

AEA SUBSCRIPTIONS PAYMENTS CO-ORDINATORS

Jan Bastiaens has offered to be the payment coordinator for Belgium. His address is:

Jan Bastiaens
University of Gent
Department of Geography
Laboratory for Palaeoecology and Landscape Genesis
Krijgslaan 281/S8
B-9000 Gent
Belgium
tel 00 32 9 2644704
fax 00 32 9 2644985
email: Jan.Bastiaens@rug.ac.be

Otto Brinkkemper will be the payment coordinator for the Netherlands. His address is:

O. Brinkkemper
Walgtsestraat 37
4064 CK Varik
giro number 44 18 738

Many thanks to Jan and Otto for taking this on.

NEWS FROM THE COMMITTEE

FUTURE AEA ANNUAL CONFERENCES

Change of Date & Request for Organisers for Easter 2002

The date for AEA annual conferences has changed from Autumn to Easter. The AEA Committee would like to hold the 2002 Easter meeting on the European Continent and is looking for a suitable venue. The conference is normally a two or three day residential meeting, sometimes with additional field visits. Organisers are invited to choose symposium and session themes and should expect to produce conference proceedings (i.e. collate and edit a volume for publication) within a short time after the completion of the conference. Interested persons and institutions should contact Dr. Carol Palmer, Acting AEA Conference Officer, Department of Archaeological Studies, University of Leicester, Leicester, Leicestershire, LE1 7RH, United Kingdom. Telephone: +44 116 2522564, Fax: +44 116 2525005, E-mail: cp24@le.ac.uk

AEA AGM & ELECTIONS

Part of this item is repeated from the August 1999 Newsletter in order to refresh peoples memories prior to the AGM:

The Annual General Meeting for the AEA will be held during the Annual conference in Guildford 14-16th April. The exact time and venue will be announced in the conference programme.

Draft agenda

1. Committee's report
2. Treasurer's report
3. AEA Constitution
4. Election of new committee members
5. Any other business

If there are any other items for the agenda would you please send them to Lisa Moffett as soon as possible.

Accounts

Details are given in a table on p. 17 of this Newsletter.
Full details of the financial accounts will be available at the AGM.
Rupert Housley, AEA Treasurer
January 2000

AEA Constitution

The Committee proposes changes to the Constitution – please see Newsletter 65 (August 1999).

Elections

Elections for new members of the committee will be held at the AGM. The elected members of the committee currently are: Megan Brickley (98-01), Otto Brinkkemper (98-01), Sabine Karg (98-01), Jacqui Mulville (97-00), Terry O'Connor (97-00) and Wendy Smith (97-00). Glynis Jones and Julie Bond retire at the April AGM. Nominations are needed for three ordinary members of the committee and for Chair and Secretary. Nominations can be made by post, email or phone, to any member of the committee or to the Secretary, Lisa Moffett (address below).

Some nominations have already been received and brief personal statements by the nominees appear in this newsletter. Further nominations, however, can be received up until the time of the AGM. It would be helpful if nominees would provide a brief statement about themselves which can be read at the AGM as an introduction to other AEA members who may not know them.

If you cannot attend the AGM you can still vote by proxy (someone who is attending the meeting). All you have to do is give a signed statement appointing whoever you wish to be your proxy to any member of the committee at any time before the AGM. (And tell our proxy how you want them to vote!). If you wish, a member of the committee will act as your proxy.

Lisa Moffett
AEA Secretary
Department of Ancient History and Archaeology
University of Birmingham
Edgbaston
Birmingham B15 2TT
UNITED KINGDOM
tel: 0121 414-5493
email: l.c.moffett@bham.ac.uk

BIOGRAPHIES

Allan Hall

Allan [Hall] studied Botany at the University of Cambridge and undertook research into interglacial plant macrofossils and pollen with Prof, Richard West. Since 1977 he has been an English Heritage-funded Research Fellow in the Environmental Archaeology Unit at the University of York, where he has been responsible for contract work and research into plant remains from a wide variety of sites in England and elsewhere, but particularly urban deposits from York, Hull and Beverley. He has an especial interest in the problems of interpreting complex occupation deposits with waterlogged preservation, working closely with Harry Kenward to integrate evidence from plant and invertebrate macrofossils. He also maintains two large databases: the Environmental Archaeology Bibliography and the Archaeobotanical Computer Database. With Harry Kenward, he started and edited the AEA Newsletter, and with Harry, and later Terry O'Connor, founded and edited *Circaea*, the association's first bulletin, subsequently journal. He was Secretary of the AEA in 1992-5. Allan's spare time is largely devoted to two gardens and two allotments, all of which could benefit from more attention!

Carol Palmer

Carol Palmer: I currently hold a Council for British Research in the Levant Post-doctoral Fellowship, based in the Department of Archaeological Studies, University of Leicester. I did my first degree at the University of Durham, afterwards working at Maiden Castle and, after that, with Martin Jones, then at Durham University, on the plant remains from the site. I then moved to the University of Sheffield where I did the Master's in Environmental Archaeology and Palaeoeconomy followed by a PhD, completed in 1994. In between my Master's and starting my PhD, however, I conducted fieldwork in Jordan for two years, living in villages learning about farming and local society. The farming practices I studied, and the weeds found in farmers' fields, were the subject of my PhD research. Since completing my PhD, I have worked on a number of short-term contracts - lecturing at Bradford and Sheffield Universities and at Birzeit University (West Bank). I also worked as a research assistant to Marijke van der Veen analysing the results from her "wheat experiment" - a project partly funded by the AEA and in which many AEA members participated. In addition, I have analysed archaeobotanical remains from a range of sites from North Africa and Poland to Shetland. I continue to conduct fieldwork in the Near East and, for my fellowship research, have turned my attention to relationships between farmers and pastoralists - between growing crops and having herds. I am a member of Graeme Barker's Wadi Faynan, southern Jordan, landscape archaeology project where I am examining current and recent Bedouin and farmer activity. Also as part of my fellowship, I am also collaborating with ecologists from the Royal Society for the Conservation of Nature in Jordan studying the effects of domestic animal grazing on local vegetation. Among my recent publications are "Following the plough: the agricultural environment of northern Jordan" *Levant* 30 (1998): 129-65 and "Whose land is it anyway? An historical examination of land tenure and agriculture in northern Jordan" in C. Gosden and J. Hather (eds) (1999) *The Prehistory of Food: appetites for change*, pp. 288-305. I have been a member of the AEA since 1986 and have published papers in volumes one and two of the AEA's journal, *Environmental Archaeology*. I was co-opted onto the AEA committee in September 1998 to serve as conference officer, a new office for the AEA. In this capacity, I act as a liaison person for conference organisers and am helping to regularise

publication of AEA conference proceedings. The hard work of past conference organisers and Oxbow mean that the Durham, Bradford and Newcastle conference proceedings are, at the time of writing, well on their way to press. I have produced guidelines for future conference organisers and am looking for further exciting venues for meetings (ideas and offers from potential organisers welcome!). The AEA would like to organise more collaborative conferences, such as next spring's (2001) conference in Glasgow to be held jointly with NABO. Unfortunately, fieldwork commitments in Jordan mean that I am unable to attend this Easter's meeting. I wish you all a successful meeting, however, and am seeking election to the AEA committee as a regular member to enable me to continue in my role as conference officer. I hope to use my academic and professional experience to the best benefit of the AEA.

Caroline Cartwright

Caroline Cartwright is the Environmental Archaeologist in the Department of Scientific Research at the British Museum. Her specialist areas of research include the archaeobotanical study of wood and charcoal as a tool for reconstructing the characteristics and use of past vegetational communities and she also focuses on the prehistoric use of marine resources such as fish and molluscs. At present Caroline is completing the identification and publication of a large part of the desiccated wood assemblage recovered from the Kenyon excavations of Middle Bronze Age tombs at Jericho. Caroline is also currently preparing for publication a reconstruction of the environmental resource base associated with Ra's al-Hadd, Oman in the Bronze and Iron Age periods. Continuing British Museum fieldwork projects include Tell es-Sa'idiyeh in Jordan, for which Caroline co-ordinates all the environmental and human skeletal specialist teamwork as well as contributing her own specialisms.

Jan Bastiaens (geographer, archaeobotanist).

As a junior researcher (30 years) I work at the University of Gent (Belgium), in the department of geography, laboratory for palaeoecology and landscape genesis. The laboratory is dealing with, among others, environmental archaeology (macrobotanical remains, wood and charcoal, pollen), firmly connected to historical geography and geomorphology.

I myself am an archaeobotanist, investigating seeds from mainly Roman sites in Flanders (Belgium), in order to prepare a Ph.D. Next to that I regularly do (post-)medieval material.

Since I have been coopted as a committee member at the last annual general meeting, I now stand for election for a three years term. The emphasis of my work within the AEA is and will be on 'foreign affairs', focusing on Belgium and its surroundings. This will comprise promoting the AEA and its journal, encouraging authors, coordinating payments, ... And on the other side, the number of people working in environmental archaeology in Belgium is still rather low, but increasing. So, the AEA can help in putting Belgium more and more on the map of environmental archaeology.

AEA BOOKS

We have the following titles in stock:

Dobney D, Jaques, S and Irving B 1996. Of Butchers and Breeds. Lincoln. £20.00

Kenward H and Hall A 1995. Biological evidence from Anglo-Scandinavian Coppergate. Archaeology of York 14/7. York: CBA. £24.00 **** NOW AVAILABLE AT £15.00 (full price £32)****

Luff R and Rowley-Conwy, P. (eds) 1994. Whither Environmental Archaeology? Oxbow Monograph 38 (Symp. AEA 11) £21.50

Moe D, Dickson J H and Jorgensen P M (eds) 1994. Garden History... £38.00

Morris C and Rackham D (eds) 1992. Norse and later settlement and subsistence in the North Atlantic. Glasgow £15.00 **** NOW HALF-PRICE AT £7.50****

Moore P D, Webb, J A and Collinson M E 1997. Pollen analysis (paperback reprint of 2nd ed.) £24.50

de Boe G and Verhaege F (eds.) 1997. Environment and subsistence in medieval Europe. Pre-printed papers of the 'Medieval Europe Brugge 1997 Conference', Vol. 9. IAP Rapporten 9. Zellik. £10.00

Mills, C. M. and Coles, G. (eds.) 1998. Life on the Edge. Oxbow (AEA Edinburgh conference volume). £20.00

Bond, J. M. and O'Connor, T. P. 1999. Bones from medieval deposits at 16-22 Coppergate and other sites in York. Archaeology of York 15/5. York: CBA. £16.00 (no reduction: it isn't worth it when UK

postage is £2.50!)

Hall, A. R. and Kenward, H.K. 1990. Environmental evidence from the Colonia. Archaeology of York 14/6. London: CBA. **Excellent value at only £2.50!** (originally £18.00)

Bartosiewicz, L., Van Neer, W. and Lentacker, A. (eds.). 1997. Draught Cattle: their osteological identification and history. Koninklijk Museum voor Midden-Afrika, Tervuren, België, Annales Zoölogische Wetenschappen/Annales Sciences Zoologiques, Musée Royale de l'Afrique Centrale, Tervuren, Belgique. £12.00

We also have copies of the first three STAR (Scottish Trust for Archaeology Research) Monographs from AOC (Scotland) Ltd.:

... Point of Cott, Westray, Orkney (Barber, ed.), £17.50

... Arran 1978-81 (Barber, ed.), £30.00

... Lairg Project 1988-1996... (McCullagh and Tipping, eds), £35.00 And, finally, there is a single copy of the following available at £20:

Pedersen, L., Fischer, A. and Aaby, B. (1997). The Danish Storebælt since the Ice Age - man, sea and forest. Copenhagen.

All titles are available from Dr Allan Hall, EAU, Department of Biology, University of York, PO Box 373, York YO10 5YW. Please add £2.50 per order for UK destinations, and £4 per order for destinations outside the UK. Please make cheques payable to 'AEA'; we are sadly unable to handle credit card payments yet.

AEA WEB PAGES

Members may like to know that the AEA has some web pages at <http://www.york.ac.uk/inst/eau/aea>

They give information about the Association, including names, address and phone numbers of officer and of members of the committee, as well as details of the next AEA Conference, a page devoted to books available from the AEA, and a link to the web site for the journal Environmental Archaeology. Any additions, amendments or improvements will be gratefully received by me at biol8@york.ac.uk (note that, because of the lunacy of having an e-mail address which could be construed equally well as BIOL8 or BIO18, I have arranged that mailings to either address will work!).

However, unless you are offering to take on the task of beautification yourself, please don't tell me that the pages are DULL. I know they are; they do now boast coloured backgrounds, but my aim initially was to make them quickly accessible and easily readable by even the slowest browsers. As technology has progressed, I perceive most people can cope with photographs without too much trouble. So I'll be delighted to try to amass some suitably environmental archaeological photographs (with captions or explanations and due credits) to brighten up what we have - send me files as e-mail attachments (and, if they are not yours, check that the owner is happy to have them sent).

Dr Allan Hall, EAU, Department of Biology, University of York, PO Box 373, York YO10 5YW

CONFERENCES & MEETINGS

AEA CONFERENCE

The Environmental Archaeology of Industry
14th-16th April 2000, University of Surrey, Guildford.

Organisers: Patricia Wiltshire (UCL) and Peter Murphy (UEA)

The environmental impacts of industry are obviously profound and far-reaching, yet in general they have been curiously neglected by environmental archaeologists. This conference aims to bridge the gap

between environmental and industrial archaeology. The effects of mining on sedimentation and vegetation in river catchments have plainly been extensive; and from sedimentological, geochemical and palynological studies inferences about early mining are possible. The fuel-supplying infrastructure of industry, and its effects on vegetation and woodland management, will also be discussed. Other raw materials for industrial production considered will include timber, horn, skins and shell. Papers on a suite of techniques based on chemistry, soil science and macrofossil studies will also be presented, all of which have a bearing on past industry. Results from a modern microbiological study will be used to assess problems that may have been encountered with carcass disposal in the past. The effects of industrialisation on human health and prospects for characterising the occupations of individuals from skeletal features will also be examined. The scope of the conference will be international, including papers presenting studies from Britain, Austria, Belgium, Greece, Egypt and Uganda.

The programme of papers is now complete, but offers of posters are invited. The programme will include:

Friday 14th April

Introduction: Setting the scene
Frank Chambers

Proxy indicators of the environmental impacts of metallurgy: palynological and geoarchaeological approaches

The use of Environmental Impact Models in Non-Ferrous Metal Mining History

Geraint Coles, Mike Cressey and Gordon Cooke

Reconstructing the environmental impact of past metallurgical activities

P.D. Marshall

Impacts of historic metal mining on the geoarchaeological landscape of the Yorkshire Dales

A.J. Howard, K.A. Hudson Edwards and M.G. Macklin.

The archaeology of tin mining on Dartmoor: a sediment-based approach

V. Thorndycroft, D.Pirriet and A.G. Brown

Geochemical evidence for atmospheric pollution close to the prehistoric copper mine at Copa Hill, Cwmystwyth, mid-Wales, U.K.

T.M. Mighall, J.P. Grattan, J.P. Timberlake, and S. Forsyth.

Fuel supplies and industry

Wood charcoal and iron-working: a case study from Uganda

Ruth Young and Gill Thompson

Industrial fuels and their environmental impact in lowland Britain

Rowena Gale

The implication for the management of woodlands of the Romano-British iron production industry.

Creton Quarry, Lincolnshire: a case study.

Jane Cowgill

History, archaeology and palaeoecology of the peat industry: a case study from the Humberhead levels, Eastern England.

Nicki Whitehouse

Biological raw materials and infrastructure

Timber availability and woodworking techniques in Lowland Britain.

Richard Darrah

Horn working and tannery at late Mediaeval Bruges: the environmental evidence

Anton Eryvynck and Bieke Hillewaert

Tawyers, tanners, horn trade and the mystery of the missing goat: zooarchaeological considerations

Umberto Albarella

Choice and use of shells for artefacts at Roman sites in the Eastern Desert of Egypt

Sheila Hamilton-Dyer

Saturday 15th April

Proxy indicators of industry: Chemical, pedological and macrofossil approaches

Organic Residues in Ancient Pottery and Archaeological Economies

Richard P. Evershed

Industrial activities - some suggested microstratigraphic signatures

Richard Macphail

"Fault" maps may be a better option!

Robert Shiel

Can we identify biological indicator groups for craft and industry?

Allan Hall and Harry Kenward

Saxon flax retting without pollution

Mark Robinson and Patricia Wiltshire

The taphonomy of arthropod remains

Jaap Schelvis

Charred mollusc shells as indicators of industrial activities

Peter Murphy

Impacts of industry on human populations

The impact of industrialisation: an assessment of the morbidity and mortality of non-adults from medieval and post-medieval England, AD 850 – 1859.

Mary Lewis

Tinker, tailor, soldier ... How can we tell the occupation of the dead?

Tony Waldron

Experimental approaches

Microbial characteristics of soils from graves: an investigation at the interface of soil microbiology and archaeological science

David Hopkins, Patricia Wiltshire & Bryan Turner

Concluding remarks

Geraint Coles

Sunday 16th April

Field excursion on Sunday 16th April, visiting the Fishbourne Roman Palace and the Wealden and Downland Museum, Singleton, Sussex.

A Booking Form for the conference will be found at the back of this newsletter. Accommodation will be provided at the University of Surrey during the conference, and bed and breakfast will also be available at the University for the nights of 13th and 16th April. Information on hotels and guest houses in Guildford will be provided for those preferring to make their own arrangements, but the Guildford Tourist Office (01483 444333) tell us that early booking is advised. Please note that we need to be told about your dietary requirements and any other special needs.

Costs for the field excursion depend partly on the size of the party, but for Fishbourne entrance should be £3.30 and for Singleton £4.20 (Full-time students £2.20). Lunch and tea will be available. Costs of transport will again depend on numbers attending, so please remember to indicate on the booking form whether you expect to come.

**JOINT CENTRE FOR PALAEOECOLOGY / ASSOCIATION FOR ENVIRONMENTAL ARCHAEOLOGY
MEETING,
25TH OCTOBER 2000**

In place of the original proposal for an Autumn Meeting of the AEA in York, a one-day meeting to coincide with the annual Research Forum of the University of York's Centre for Palaeoecology has been offered. The provisional date for this meeting is October 25th and the venue will be the Department of Archaeology, based at The King's Manor in central York (both date and venue to be confirmed in the next Newsletter). As usual for both these meetings, there is no particular theme and contributions of no more than 10-20 minutes on any topic in Environmental Archaeology are invited from all AEA Members. A further announcement will be made in the May Newsletter when bookings will be taken.

To offer a contribution or check details of the meeting, please contact either Professor Terry O'Connor (Department of Archaeology, University of York, Kings Manor, YORK YO1 2EP, tel. +44 1904 433946, fax 433902, e-mail: tpoc1@york.ac.uk

or

Dr Allan Hall, Environmental Archaeology Unit, Department of Biology, University of York, PO Box 373, YORK YO10 5YW, tel. +44 1904 433851, fax 433850, e-mail: biol8@york.ac.uk

PROPOSAL FOR AN ARCHAEOBOTANY WORKGROUP MEETING, YORK, JULY 2000

Allan Hall would like to sound out archaeobotanical AEA Members with regard to the amount of interest there might be in holding a workgroup meeting in York in, say, the first two weeks of July 2000. As before, this would be an informal meeting providing an opportunity to exchange ideas and examine material - there must be a vast accumulation of 'unknowns' out there which has built up since the last meeting (which was too long ago to remember)!

If you think you would be interested in attending such a meeting, please let Allan know, preferably before the end of March; it would be helpful if you could indicate whether a date between 3rd and 12th of July is convenient and what, if anything, you think we might take as a theme for the day. The only idea I have myself is that we might do something on the identification of mosses from archaeological deposits, but I am not wedded to it!

Allan Hall, Environmental Archaeology Unit, Department of Biology, University of York, PO Box 373, YORK YO10 5YW, tel. +44 1904 433851, fax: 433850, e-mail: biol8@york.ac.uk.

12TH SYMPOSIUM OF THE INTERNATIONAL WORK GROUP FOR PALAEOETHNOBOTANY

Sheffield, UK

17-23 June 2001

We are pleased to invite you to the 12th IWGP symposium

Local organisers

Dr. Glynis Jones and Dr. Mike Charles - email: iwgp@sheffield.ac.uk (checked weekly)

Consultative group

Dr. A Butler, Dr. S. Colledge, Mr. D. Fuller, Dr. J. Greig, Dr. A. Hall, Prof. M. Jones, Ms. F. McLaren, Ms. L. Moffett, Dr. D. de Moulin, Ms. Murray, Dr. M. Nesbitt, Dr. D. Samuel, Ms. V. Straker, Dr. M. van der Veen, Ms. A. Bogaard, Dr. C. Stevens, Dr. J. Thompson.

Registration fee £50

Themes:

There will be sections on particular themes as well as open sessions for contributions on any topic in archaeobotany. The themed sections are as follows:

Consumption: food, fodder and cuisine - The consumption of plants as food, drink, medicines, industrial raw materials and fodder; the status of both plants (luxuries, staples) and consumers (rank,

gender, ethnicity).

Collecting and cultivation - The gathering and cultivation of plants, the transition to and spread of farming, and the role of gathering in farming societies.

Historical archaeobotany - The integration of documentary and archaeobotanical evidence; the archaeobotany of historical periods (e.g. Sumer, Rome, medieval Europe) and processes (e.g. Romanisation, urbanisation, the spread of Islam, European biological imperialism, long-distance trade).

Analytical archaeobotany - Scales of analysis (context, household, site, region); qualitative v. quantitative analysis; integration of archaeobotanical and other archaeological evidence; levels of identification; ecological approaches and uniformitarianism.

In addition to the lectures there will be laboratory demonstrations and poster sessions. The languages of the conference will be English, French and German.

Field excursion

The organisers are considering two possible field excursions. Depending on the preferences expressed by IWGP participants, one or both will be offered. The two alternatives are as follows (both would take place on the Saturday):

York

The opportunity to spend a day in York, one of England's most historic cities, which lies about 110 km (70 miles) NE of Sheffield. No formal arrangements will be made for visiting the huge variety of historic buildings and museums in York - conference participants will have a full day to explore the city and choose their own schedule. Transport to York (by coach) will be provided and maps and other details will be available in advance.

Peak District

A guided exploration of the landscape archaeology of the east moors of Derbyshire, focussing on Gardom's Edge (15 min coach ride from Sheffield, followed by a long walk), where upstanding evidence for settlement, agriculture and ceremonial activity can be traced from the Neolithic to the Iron Age. In the same area, participants will be able to explore the functional ecology of contrasting grassland habitats under the guidance of a local ecologist.

Accommodation

Two types of accommodation will be offered. Most participants will be accommodated in Tapton Hall of Residence, University of Sheffield (5-10 min walk from the lecture theatre and next door to the University Botanical Garden). Student self-catering accommodation will be available in various parts of Sheffield. This accommodation is limited and cannot be offered to salaried participants except in particular cases of need.

WEB site

Information regarding the symposium, travel, excursion locations etc. will be available on the IWGP web site - <http://www.shef.ac.uk/uni/academic/A-C/ap/conf/iwgp/iwgp.html> - which will be updated as regularly as possible. Copies of this announcement and the registration form are also available on the WEB site.

A registration form is available at the back of this Newsletter.

FINDS RESEARCH GROUP AD 700-1700

FORTHCOMING SEMINAR: FISH AND FISHING EQUIPMENT.

Monday 17th April, 2000 in The Music Room, Norwich Assembly House.

The day will include papers on fish remains, fishing sites, a review of fishing equipment, evidence from Dublin, an Anglo-Saxon burial in Folkestone, jewellery made from fish parts and a scan through fish motifs and symbols. For further information contact: Ian Riddler, Canterbury Archaeological Trust, 92A Broad Street, Canterbury. CT1 2LU. Tel: 01227 462062.

Finds Research Group AD700-1700. Annual subscription for membership is £3-00 (£5-00 overseas). Information can be obtained from Katey Banks, The Potteries Museum, Bethesda Street, Hanley, Stoke-on-Trent ST1 3DW. Tel: 01782 202173 Fax: 01782 205033

THE MANAGEMENT AND FUNCTION OF SEED REFERENCE COLLECTIONS

A workshop sponsored by the Institute of Archaeology, University College London; Centre for Economic Botany, Royal Botanic Gardens, Kew and Seed Conservation Department, Royal Botanic Gardens, Kew. To be held over one day, at the Institute of Archaeology, 27th March 2000. Organisers: Sue Colledge and Mary Anne Murray (UCL), Frances Cook, Claire Morgan and Mark Nesbitt (RBG Kew), John Dickie (Wakehurst Place, RBG Kew). Seed reference collections are widely used by archaeobotanists, quaternary botanists, agronomists and taxonomists. However, though germplasm uses of seeds are well documented, there has been little discussion of the management or function of seed reference collections for identification or the study of seed anatomy and morphology. This meeting aims to bring together those actively involved in curating or using seed reference collections to discuss three broad topics:

Cataloguing and databases: current developments in cataloguing seed collections using databases. In what order do we organise our collections? Is there a standard format or core group of fields we should use? Can we use core fields from broader practice within botany (e.g. the Taxonomic Database Working Group)? What plans do we have to enable WWW access to databases? Should we create a central WWW homepage with links to seed reference collections? Other management issues: Storage: discussion of any variants on the plastic box/Bisley cabinet system that is most widely used. Imaging: still very memory hungry, and automated seed identification systems are still in their infancy. Have there been any successful or unsuccessful use of image storage systems amongst participants? Priorities in seed identification: What are the urgent needs for identification aids in temperate Old World seed identification? Dr John Dickie prompted this by asking what families or genera would be a high priority for any future work on seed anatomy in his laboratory at Wakehurst Place.

Details have already been circulated to many of those in the UK actively involved in managing seed reference collections or working on new morphological/anatomical seed identification criteria. If you did not receive a circular and are interested in coming, please contact: Mark Nesbitt Centre for Economic Botany Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AE. Tel (direct): +44 (0)20 8332 5719. Fax: +44(0)20 8332 5768. Web: <http://www.rbgkew.org.uk/ceb>. Email: m.nesbitt@rbgkew.org.uk

COURSES & STUDENTSHIPS

DEPARTMENT OF ARCHAEOLOGY, UNIVERSITY OF DURHAM POSTGRADUATE STUDY IN ARCHAEOLOGICAL SCIENCES

The following Masters courses are offered within scientific areas:

- MSc in Palaeopathology (new course for 2000)
- MSc in Ancient Diet and Health (new course for 2000)
- MSc in Applied Chronometry
- MA in Conservation of Historic Objects (Archaeology)
- MA in Archaeological Survey

For details and application forms, please contact:

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Or for the individual courses:

MSc Palaeopathology: Dr Charlotte Roberts (C.A.Roberts@Durham.ac.uk)

MSc Diet and Disease: Dr Andrew Millard (A.R.Millard@Durham.ac.uk)

MSc Applied Chronometry: Mr Ian Bailiff (Ian.Bailiff@Durham.ac.uk)

MA Conservation Of Historic Objects (Arch.): Dr Chris Caple (Christopher.Caple@Durham.ac.uk)

MA Archaeological Survey: Mr Phil Howard (Phil.Howard@Durham.ac.uk)

DEPARTMENT OF ARCHAEOLOGY, UNIVERSITY OF DURHAM, U.K. RESEARCH DEGREES

Applicants are also invited for research degrees within the Department. Note that deadlines for funding are looming for U.K. applicants and you are therefore advised to contact staff you may wish to do research with soon. For more details and application forms please contact Sheila Brown (as above), or see our website which includes Active Staff Research Interests:

<http://www.dur.ac.uk/archaeology/>

DEPARTMENT OF ARCHAEOLOGY, UNIVERSITY OF DURHAM, U.K. MSc IN PALAEOPATHOLOGY

A new masters taught course in Palaeopathology will be starting in October 2000 in the Department of Archaeology, University of Durham, England directed by Dr Charlotte Roberts. Dr Roberts has recently moved to the University of Durham from the University of Bradford and brings with her an extensive theoretical and practical knowledge for teaching palaeopathology, her main research interests also being in this area. The following provides an overview of the course.

Aims and Objectives

Because disease is very much part of our lives today, this course has, as its focus, health and disease in past populations from a world perspective. This course aims to equip students with the theoretical and practical knowledge of how to study disease in past skeletal populations, with the emphasis being on linking both biological and cultural contextual data, thereby encompassing a multidisciplinary approach. Using lecture, laboratory and tutorial sessions, and a range of assessment methods, the course will provide students with a range of skills necessary for the world of work and/or research. The emphasis, however, is on the practical element of the course. This intensive course thus offers a unique training unrivalled in the world for students wishing to gain skills for the analysis of skeletal remains from archaeological sites and/or to continue in research.

Structure of the programme

The MSc course is designed to provide students with the theoretical and practical knowledge necessary for the study of palaeopathology. Students take the equivalent of six modules over the year with modules 1-4 being completed by June of the year following registration. The modules are as follows:

Module 1a : Research and study skills in archaeological science (15UCU)

Module 1b : Research and study skills in palaeopathology (15UCU)

Module 2 : Basic anatomy and osteology (30UCU)

Module 3 : Methods and practice in palaeopathology (30UCU)

Module 4 : Themes in palaeopathology (30UCU)

Modules 5+6 : Dissertation (60UCU)

If a student wishes to study part-time, Modules 1, 2 and 3 must be studied in the first year, and the dissertation completed in the second year. Module 4 can be taken in either year. Module 2 can be replaced with another module of the student's choice (and staff approval) if the applicant feels (and can prove) that they have the knowledge contained in this module (for example, North American students)

The Department of Archaeology at Durham

The Department of Archaeology at Durham was founded after WWII and has been teaching Honours degrees since 1974. It comprises around 20 academic staff with a range of backgrounds and, whilst the Department teaches courses at both undergraduate and postgraduate levels, it also excels in research, gaining a grade 5 (1 being poor and 5 being excellent) in the last research assessment exercise (1996). The Department moved to its current premises in 1997 and into newly refurbished accommodation, providing a range of excellent facilities for teaching and research. The accommodation consists of teaching space plus a drawing office, photographic studio and dark room, and environmental archaeology, luminescence dating, human skeletal analysis, conservation and computing laboratories. Students also have access to the Old Fulling Museum and Oriental Museum, both situated in Durham. The library has excellent holdings in archaeology, anthropology, and more specifically physical anthropology (including palaeopathology), and other major Departmental disciplines (e.g. history, classics, geology, geography, biology, chemistry). There are also research links with a number of other Departments within the University including Anthropology, Biology, Geography, Geology and History, and also with other universities both nationally and internationally.

Entry Requirements

We welcome students graduating with a good honours degree in an appropriate subject such as archaeology, anthropology, medicine, biology, genetics, history, classics, anatomy and other subjects. Alternatively, a candidate who satisfies the Graduate School Committee's requirements with other qualifications will also be considered. Overseas candidates must demonstrate proficiency in the English language at the appropriate standard.

Applications for the course

Information about applying for the MSc in Palaeopathology can be acquired from:

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Email: Sheila.Brown@durham.ac.uk

Tel: 0191-374-3629; Fax: 0191-374-3619. Website: <http://www.dur.ac.uk/archaeology/>

Or for more informal enquiries please contact:

Dr Charlotte Roberts (Tel:0191-374-1124; Email:C.A.Roberts@durham.ac.uk)

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Many thanks to James Greig for the following information:

James writes: "I am always delighted to receive references: greigjra@bham.ac.uk. Thanks to Umberto Albarella, Corrie Bakels, Christiane Jacquat, Manfred Rösch, Peter Warnock, Julian Wiethold for references."

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AEA ACCOUNTS compiled to 31 December 1999

	1995	1996	1997	1998	1999
.					
Assets at start of year					
Bank account balances	7909.53	8458.08	12,535.09	9156.84	6396.44
Cash	12.02	12.02	10.46	6.40	19.40
.					
Income:					

Subscriptions	4905.95	4550.50	5932.00	6096.00	5764.00
Books, inc. Journal back nos.	1764.80	2006.82	1242.39	1429.25	961.98
Interest (minus bank/credit card charges)	266.72	358.11	186.11	306.08	46.31
Meetings, NL flyers	0	67.78	527.25	0	20.00
Misc. (donations, grants)	15.00	0	1000.00	0	40.00
income subtotal	6952.47	6983.21	8887.75	7831.33	6832.29
Initial assets and income, excluding books in stock	14,874.02	15,453.31	21,433.30	16,994.57	13,248.13
.					
Expenditure:					
Office, stationery	365.59	156.49	174.86	66.00	64.53
IFA poster space and display boards	1978.65	0	0	0	0
Committee, membership leaflet	25.50	67.50	5.00	0	332.40
CBA & Data Protection fee	48.00	48.00	125.00	50.00	50.00
Grants & Conference loans	100.00	300.00	0	0	808.00
Newsletter production & postage	1398.54	1387.77	1189.07	1101.80	1234.75
Journal production & postage	1184.11 (Circaea 11:1)	0	10,311.80 (Circaea 11:2, 12:1)	8709.93 (Circaea 12:2, EA1, EA2)	3692.00 (EA3)
Books	1303.53	948.00	470.87	651.00	922.00
subtotal expenditure	6403.92	2907.76	12,276.60	10,578.73	7103.68
.					
Assets at end of year:					
Bank accounts	8458.08	12,535.09	9156.84	6396.44	6124.08
Cash	12.02	10.46	6.40	19.40	20.37
Expenditure and final assets, excluding books in stock:	8470.10	12,545.55	9163.24	6415.84	6144.45

AEA CONFERENCE BOOKING FORM

'THE ENVIRONMENTAL ARCHAEOLOGY OF INDUSTRY'

Conference fee: £30 (£15 - student/unwaged/retired)

Thursday 13th April

Bed and breakfast (£27.50)

Friday 14th April
 Coffee, lunch and tea (£23.03)
 Wine reception and Conference Dinner (£22.74)
 Bed and breakfast (£27.50), or
 24 hour package, including all above (£62.45)
 Saturday 15th April
 Coffee, lunch and tea (£23.03)
 Dinner (£11.34)
 Bed and breakfast (£27.50), or
 24 hour package, including all above (£51.05)
 Sunday 16th April
 Bed and breakfast (£27.50)

Total

Any special dietary requirements?

Name:
Address:

Please make cheques payable to AEA Conference Account (1999) and send to Peter Murphy, Centre of East Anglian Studies, University of East Anglia, Norwich NR4 7TJ, UK.

The cost of the field excursion (Sunday 16th April) will depend on the numbers attending. Please indicate whether you intend to come, so we can book suitable transport.

I will/will not be attending the Field Excursion on 16th April.

I would like to offer a poster entitled.....

12th Symposium of the International Work Group for Palaeoethnobotany
 Sheffield, U.K. 17-23 June 2001

<http://www.shef.ac.uk/uni/academic/A-C/ap/conf/iwgp/iwgpx.html>

PARTICIPANT INFORMATION

Surname Title
 First Name Email
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REGISTRATION

I would like to attend the IWGP conference
 I/we would like to give a presentation

Name(s) Title of Presentation (in language of presentation - English, French or German)

Preferred form of presentation (please tick1) paper poster

1 depending on the number offered, you may be asked to give your presentation in a different form.

Preferred section (if any2)

Consumption: food, fodder and cuisine Collecting and cultivation

Historical archaeobotany Analytical archaeobotany

2 presentations not fitting into any of the above sections can be included in the open sessions

ACCOMMODATION/MEALS

Please indicate the meals and accommodation you would like to reserve (please tick each day the service is required)

Service Daily cost sun

(17) mon

(18) tues

(19) wed

(20) thur

(21) fri

(22) sat

(23)

Bed & Breakfast with bathroom £33.40

Bed & Breakfast standard £21.75

Dinner, Bed & Breakfast with bathroom £43.60

Dinner, Bed & Breakfast standard £31.95

Student self-catering ca £7.50

Lunch - buffet service £8.68

Lunch - packed lunch £5.20

All rooms are single except for a very small number of double rooms (with bath) at the same cost per person, available for participants with partners; please give partner's name if you would prefer a double room

limited to registered students and cases of particular need 5 estimate based on current costs

Special dietary requirements (vegetarian, vegan etc.)

Other special requirements (transport etc.)

EXCURSION

Please indicate which of the two possible excursions you would prefer Peak District York

I will not be joining the excursion

Forms to be returned by 31 March 2000

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