



Association for Environmental Archaeology

Newsletter 79
February 2003

ISSN 1363-6553

Edited by Wendy Carruthers and Vanessa Straker

Copy dates for Items for the Newsletter may be submitted by e-mail or on disk. Newsletter: 20th of the following months - January / April / July / October. Short typed manuscripts can be sent to Wendy Carruthers.

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AEA website <http://www.envarch.net/>

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EDITORIAL

A belated Happy New Year to everyone! As this is the first Newsletter of 2003, it would be helpful if members could please check their Direct Debits and Standing Orders to make sure they are paying the correct subscription. The current rate is £20 for U.K. members and £12.00 for students/unwaged.

This issue contains information about the Spring Conference in Belfast. Please note that you must register by **February 20th** if you require accommodation and wish to attend the conference dinner.

The co-ordinating editor of the AEA journal, *Environmental Archaeology*, would like to encourage members to contribute papers. Please see the item by Glynis Jones in the 'News from the Committee' section for details.

CHANGE OF ADDRESS

[Our apologies to Ian for leaving this out of the last Newsletter: Eds]

Ian L. Baxter : 4 Moor View Newbiggin-by-the-Sea Northumberland NE64 6DH

Tel: 01670 520445

Please note that the AEA secretary has a new address:

Dr. Carol Palmer, Department of Archaeology and Prehistory, University of Sheffield, Northgate House, West Street, Sheffield, S1 4ET, UK

Tel: +44 (0)114 22 22926; Fax: +44 (0)114 27 22563; e-mail: c.palmer@sheffield.ac.uk

Former Environmental Archaeology Unit, York:

The remaining staff of the former Environmental Archaeology Unit moved recently to join the Centre for Human Palaeoecology in the Department of Archaeology at the University of York. The new address for Allan Hall, Harry Kenward and Raimonda Usai is:

Department of Archaeology
University of York
The King's Manor
York YO1 7EP

and our phone numbers are 01904 434950 (Hall), 433905 (Kenward) and 433962 (Usai). The departmental fax is 433902. Our e-mail addresses remain the same.

NEWS FROM THE COMMITTEE

NEWS ABOUT THE JOURNAL – TWO ISSUES THIS YEAR

The first issue of *Environmental Archaeology* volume 8 will be published in April and distributed in May. **Please renew your membership early to make sure that you receive your copy on time** (this does not apply to members paying by standing order, of course). The AEA membership Secretary will be sending out reminders, but if you have any questions about your membership status, please contact Ruth Pelling at: membership@envarch.net or address your letter to: The AEA Membership Secretary, 14 Perfect View, Camden, Bath, BA1 5JY, UK.

Call for papers! The Co-ordinating Editor of *Environmental Archaeology* welcomes contributions. The editorial policy of *EA* is to publish wide range of contributions in all fields of environmental archaeology, from methodology to synthesis and theory. These may take the form of substantial research papers (up to 6000 words in length) or shorter reports. Please send your papers for consideration to:

Dr. Glynis Jones, Co-ordinating Editor of 'Environmental Archaeology', Dept. of Archaeology and Prehistory, University of Sheffield, Northgate House, West Street, Sheffield, S1 4ET, UK;
e-mail: g.jones@sheffield.ac.uk.

Further information about the journal is available at:

<http://www.shef.ac.uk/uni/academic/A-C/ap/envarch/index.html>.

The next issue of *Environmental Archaeology* will contain the following articles:

ENVIRONMENTAL ARCHAEOLOGY Vol 8, Issue 1

Research Papers:

Prehistoric Landscapes and Settlement Geography Along the Wadi Hasa, West-Central Jordan.
Part II: Towards a Model of Palaeoecological Settlement for the Wadi Hasa

Joseph Schuldenrein and Geoffrey A. Clark

Joined-Up Archaeology at Old Scatness, Shetland: Thin Section Analysis of the Site and Hinterland
Erika B. A. Guttman, Ian A. Simpson and Stephen J. Dockrill

The Use of Pollen, Magnetic and Carbon Analyses in Identifying Agricultural Activity and Soil Erosion
from the Neolithic to the Iron Age - A Study of Two Lake Sediment Cores from Jæren, South-
Western Norway
Lisbeth Prøsch-Danielsen and Per Sandgren

Dog Cockle Shells as Occasional Finds in Romano-British Shell Middens from Newquay, North Cornwall,
UK
Jan Light

An Investigation of Agricultural Consumption and Production Models for Prehistoric and Roman Britain
Chris J. Stevens

Short Contributions:

Organisation and Management of Seed Reference Collections
Mark Nesbitt, Sue Colledge and Mary Anne Murray

Unusual Use of Freshwater Mussel (*Unio* sp.) Shells During the Early Bronze Age at Tell es-Sa'idiyeh,
Jordan
Caroline Cartwright

RELAUNCH OF THE AEA WEBSITE (<http://www.envarch.net>)

Your ideas please! Rob Craigie, the new webmaster, is currently redesigning the AEA website, and would welcome your suggestions on how to make the site more accessible, any links to include (or exclude), and offers of images to make the site more interesting for visitors. The website has been a little quiet of late, but there is plenty going on behind the scenes. Please get in touch with Rob at: r.craigie@sheffield.ac.uk.

APPLICATION FOR CHARITABLE STATUS

At the last committee meeting, the AEA managing committee decided to apply for charitable status and the application is now almost ready to be submitted. If the application is successful, the main advantage is that it will allow the AEA to claim back tax for UK tax paying members, so long as those members fill in a 'Gift Aid Declaration' form. We will keep you informed on this.

2003 AEA AGM

Just a reminder to say that the next AGM will be held at the autumn 2003 one-day meeting rather than at the spring conference in Belfast.

AEA BOOKS

We now have copies of the 'Brothwell Festschrift' (Bones and the man, edited by Terry O'Connor and Keith Dobney) at £20 plus £2.50 p&p (UK) and £4 (non-UK) (publisher's price £30). While stocks last, your copy can be secured from

Allan Hall
Department of Archaeology
University of York
The King's Manor
York YO1 7EP
UK
bio18@york.ac.uk
+44 1904 434950

Please note the new address and phone number!

CONFERENCES AND MEETINGS

Worlds apart? Human settlement and biota of islands

Association for Environmental Archaeology Annual Symposium, School of Archaeology and Palaeoecology, Queens University Belfast, Belfast.

24th-26th April 2003

A reminder that if you require Conference accommodation and wish to attend the conference dinner and field trip, registration for this meeting is required by the 20th February 2003. We would appreciate prompt registration even if you are not intending to register for any of the above. Further details of registration can be found on the Conference web site (<http://www.qub.ac.uk/arcpal/events/aea.htm>), where there is a downloadable registration form. If you have any queries, please do email us at: aea-islands@qub.ac.uk. We would advise delegates to book their flights early, to ensure good prices. Prices are usually very competitive.

Travel information

By Air (by far the easiest and cheapest)

There are two airports that serve Belfast: City and International. International is some 40 minutes by bus from Belfast. Buses run every 30 minutes from outside the Terminal Building. Many of the Budget Airlines travel to Belfast International. Belfast City is by far the most convenient airport; with the University just 10-15 minutes away by taxi.

The easiest way to book flights is via the Internet. Expect to pay anywhere from £45-80 for flights depending upon how far you in advance you book and the carrier. Do NOT expect to pay more than £100!

The following carriers operate from Belfast City:

- British Midland (Heathrow)
- British Airways (Glasgow, Edinburgh, Southampton, Manchester)
- FlyBe (Bristol, Isle of Man, Newcastle, Leeds, Birmingham, City of London, Gatwick)

The following carriers operate from Belfast International:

- EasyJet (Bristol, Edinburgh, Glasgow, Liverpool, Luton, Stanstead)
- BMI Baby (Cardiff, East Midlands)
- British Midland (Heathrow)
- Eastern Airways (Aberdeen)
- MyTravelLite (Birmingham)
- British Airways (Birmingham)
- Buzz (Bournemouth)

Dublin Airport is connected to Belfast via a regular bus service which runs every couple of hours.

The following Ferry Services also cover Belfast: SeaCat (Heysham, Troon and the Isle of Man); Stena Line (Stranraer); Norse Merchant Ferries (Liverpool); P&O Irish Sea (Larne-Cairnryan)

List of agreed speakers and titles

Colonisation, biogeography and significance of "Islands"

Everett Bassett (University of Utah), *Insularity, Isolation, and Innovation: Rethinking Tasmania*

Peter Woodman and Laurent Costa (University of Cork) *Initial human settlement on Islands: Corsica and Ireland - similarities and differences*

Robin Sim (School of Archaeology and Anthropology, Australian National University, Canberra)

Australian Survivor: the role of climate and biodiversity in the viability of human populations on offshore islands.

Philippa Tomlinson with Jim Innes, Richard Chiverrell, Jeff Blackford and Larch Garrad (Centre for Manx Studies, Isle of Man) *A review of the evidence for colonisation and extinction in the Manx flora through the Holocene*

Mark Dinnin (School of Geography & Archaeology, University of Exeter); *Insects, islands and isolation: fossil beetle evidence for the development of the Outer Hebridean biota*

Sam Berry (Dept of Biology, University College, London). *Island Differentiation muddied by Island Biogeographers.*

Nicki Whitehouse, (Palaeoecology Centre, Queens University Belfast) *Vegetation islands in Holocene forests: implications for landscape clearance, forest openness and patchiness*

Freddy Gathorne-Hardy and Kim Burrows (University of Sheffield), *The ecological effects of the Norse Landnam on the Faroe islands: The Arthropods' point of view.*

Derek Yalden (Biological Sciences, University of Manchester), TBA

Human settlement and use of "islands"

Ian Armit, Coralie M Mills, Kevin J Edwards & Pamela Grinter, Queens University Belfast. Neolithic fuel exploitation and environmental impact at Eilean Domhnuill, North Uist, Scotland

Eileen Murphy (School of Archaeology and Palaeoecology, Queens University Belfast). *Islands of sorrow: children's burial grounds in Ireland.*

Don Brothwell, (University of York) TBA

Wes Forsythe (Centre for Maritime Archaeology, University of Ulster) *From Inismacduirn to Rutland: a post-medieval fishing complex on the north-west coast of Ireland.*

Catherine Dupont, Rick Schulting and Anne Tresset (University of Paris, School of Archaeology and Palaeoecology, Queen's University of Belfast, Muséum National d'Histoire Naturelle Paris) *From harvesting the sea to stock rearing in north-western Europe: some views from the small islands of north-western France and northern Scotland.*

David Bukach (Oxford) *The Mesolithic-Neolithic Transition on the Channel Islands: A Case Study on the Neolithisation of an Emerging Island Group*

James Barrett, Terry O'Connor, Ian Simpson, Marcus Smith, Suzie Richer and Jerad Zimmermann *Landscape Archaeology at Quooygrew, Westray, Orkney: The Interface of Terrestrial and Maritime Economies in Early Historic Scotland*

Cooney, Gabriel (Dept. of Archaeology, UCD) *Lambay: an island in the Irish Sea world*

Lilian Karali & Fragkiska Megaloudi (Centre d' Anthropologie Toulouse-France) *Traditional food in the Aegean*

Ian G. Meighan, J.A. Van Tilburg, Barrie N. Hartwell (School of Archaeology & Palaeoecology, Queen's University Belfast and The Institute of Archaeology, UCLA, Los Angeles, California) *Sourcing Easter Island's Trachyte Statues*

Rachel Ballantyne, (University of Cambridge), *Through water, peat and soil: The mediaeval phenomenon of Fenland*

Jacqui Huntley (Department of Archaeology, University of Durham) *Diet and economy at the edge of the world: palaeoenvironmental research on St Kilda (Outer Hebrides)*

Ben Gearey, Norá C. Bermingham & Henry P. Chapman (Wetland Archaeology and Environments Research Centre, University of Hull) *Wetland Islands, Dryland Islands? Towards a holistic view of raised mires and the archaeological record*

Jacqui Mulville, Nial Sharples, and Helen Smith (The School of History & Archaeology, Cardiff University and School of Conservation Sciences, Bournemouth University) *All washed up? Scales of insularity in South Uist*

Stephen Royle (School of Geography Queen's University Belfast) *Human interference on Ascension Island*

Aidan O'Sullivan (Dept of Archaeology, University College Dublin), *'Fortunate isles' - encounters with islands in early medieval Ireland*

Christina Fredengren, Meriel McClatchie and Ingelise Stuijts (The Discovery Programme and Institute of Archaeology, University College London). *Crannogs: connections and distance*

Irish environmental archaeology

Lisa Doyle and John Ó Neill (School of Archaeology and Palaeoecology, Queens University Belfast), *Pathogens and the Mesolithic-Neolithic transition in Ireland.*

McLaren Frances, Mick Monk, R. Sexton, J. Freeman & John Evans *The Lis Leagh Biscuit.*

McCormick, Finbar (School of Archaeology and Palaeoecology, Queens University Belfast). TBA

Second International Conference on Soils and Archaeology
Pisa, Italy, May 12-15, 2003

Second Circular

PROVISIONAL PROGRAMME

May, 10, 11 – Workshop of the Archaeological Soil Micromorphology Working Group.

May, 12, 13, 14 – Oral and poster sessions.

May, 15 – Field trip.

The conference is preceded by a 2day workshop of the Archaeological Soil Micromorphology Working Group. Thin sections and microscopic techniques employed in some of the analyses presented at the conference, can be viewed here. This workshop is open to all, with the only limitation that the microscopy room of the Department of Earth Sciences is equipped with 20 microscopes.

CONFERENCE FEES

100 Euro (50 for students and unemployed, with certificate) if paid before **February 28**, 2003. Later payment: +30%.

DEADLINES

Final registration and payment: February 28, 2003.

Final circular and preliminary program: March-April, 2003.

ACCOMMODATION

Remember that **EARLY BOOKING OF ACCOMMODATION IS STRONGLY RECOMMENDED**, because the Conference occurs during a period of major tourist activity. Hotels and bed & breakfast accommodation in Pisa for this period tends to become fully booked very early in the year.

A list of hotels, including phone/fax numbers and some prices, is available on the web site of the conference.

WEB SITE

All this information is available also on the Conference web site

<http://soilarch.humnet.unipi.it>

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**British Geomorphological Research Group
Quaternary Research Association
Geoconservation Commission**

Conserving Our Recent Past

One-day Conference, School of Conservation Sciences, University of Bournemouth, 11 June 2003

First Call for Papers

Themes:

- Conflicting conservation interests
- Conserving active processes
- Best and worst practice in conserving unconsolidated materials
- Conservation of peat and soils
- Approaches to conserving our recent past

The conference is aimed at both academics and practitioners in the field of Earth Heritage Conservation, as well as those involved in policy or research that might have an application to conservation. There will be a strong transdisciplinary focus with invited speakers from Archaeological, Built Heritage, and the Earth Sciences disciplines in order to explore common ground and areas of potential conflict. The conference will be of interest to local planners, RIGS groups, statutory conservation agencies and environmental consultants.

The deadline for submission of papers and abstracts is the 1 May 2003. If sufficient interest is shown it is hoped to produce an edited volume of the conference papers.

Organising Committee:

- Peter Doyle, University of Greenwich
- Matthew Bennett, University of Bournemouth
- Chris Wood, University of Bournemouth
- Janet Hooke, University of Portsmouth
- Chris Green, Royal Holloway, University of London
- Natalie Bennett, English Nature

Further details and booking forms can be obtained from: Professor Matthew R. Bennett, School of Conservation Sciences, University of Bournemouth, Talbot Campus, Fern Barrow, Poole, Dorset, BH12 5BB; Tel. 01202 59 5253; Fax. 01202 595255; E-mail mbennett@bournemouth.ac.uk

Association for Environmental Archaeology

One-day meeting with the Centre for Human Palaeoecology, University of York.

Monday 29th September 2003, Tempest Anderson Hall, Museum Gardens, York

Contributions are invited for the AEA one-day meeting, to be held in York on 29th September. Short papers on any current aspect of environmental archaeology are welcome, though we would particularly encourage reports on work in progress, thematic papers intended to stimulate debate, and papers from younger colleagues.

Further details and booking form will be circulated with the next Newsletter

Offers of papers to: Terry O'Connor, Department of Archaeology, University of York, York YO1 7EP.
tpoc1@york.ac.uk

Centre for Human Palaeoecology, University of York

Thirty years on: where next for urban environmental archaeology?

Tuesday 30th September 2003

Tempest Anderson Hall, Museum Gardens, York

To mark the thirtieth year of environmental archaeology in York, we propose a one-day conference to review progress in urban environmental archaeology and to set the agenda for the next thirty years. Contributions will be by invitation in the first instance, though suggestions for papers and speakers would be welcome. Further details and booking form will be circulated with the next Newsletter. Astute colleagues will have noticed that this meeting is on the day following the AEA one-day meeting, and in the same place. We do not propose to organise overnight accommodation for those attending both events, but will provide sources of local information.

Organisers: Allan Hall, Harry Kenward, Terry O'Connor;
Department of Archaeology, University of York, York YO1 7EP.

OXFORD ARCHAEOLOGY

Require a Palaeoecologist or Archaeobotanist to work in Lancaster

A **Palaeoecologist, Biologist or Archaeologist** with suitable experience, is required to work principally on waterlogged plant remains and pollen from archaeological sites. The person appointed will participate in all aspects of archaeobotanical work including site visits, sampling, sampling strategies, processing involving chemicals, assessing, and analysing samples. Training will be provided as appropriate.

Botanical knowledge above A-level, or practical experience, and a driving licence are essential. Experience of report writing and other aspects of archaeological work are desirable. This post is initially for one year. Salary scale £14,000 to £16,500. Please reply with letter and CV to Sarah Edwards at

FLOODS IN PRAGUE - REQUEST FOR HELP

The AEA has had a request from Dr. Natalie Venclova, Deputy Director of the Institute of Archaeology, Prague, for help with rebuilding their reference collections and library following the recent floods. If you can help with books, off prints, or any of the reference material they ask for, please contact Sue Cole at English Heritage (on behalf of the International Blue Shield) on Sue.Cole@english-heritage.org.uk or Dr Natalie Venclova on venclova@arup.cas.cz. Dr Natalie Venclova has forwarded the following requests:

From Petr Pokorny and Milos Kaplan:

Dear Colleagues,

Pollen samples: we would be thankful for any form of help. Of course, the best material for us (as we have lost our lab during the floods) are processed samples - either glycerine suspension, or reference slides. We have included to this email an Excel sheet of those plant species that we would appreciate very much [*Eds: see Appendix I at the end of this Newsletter*].

Plant macrofossils: we have lost the most of our collection, which has been established not long ago. In this case, we would be grateful for any kind of help, which means any collection of samples from your reference collection (namely ruderal species are the most important for us by now).

From Rene Kysely, archaeozoologist:

Archaeozoology - reference collections needed:

whole skeletons of the classes of Vertebrates: *Pisces, Amphibia, Reptilia, Aves, Mammalia*.

Out of that, the species most urgently needed are:

Alces alces, Rangifer tarandus, Dama dama, Sus scrofa scrofa, Ursus arctos, Vulpes vulpes, Marmota sp., Arvicola terrestris, Erinaceus europeus,

Tetrastes (Bonasa) bonasia, Lyrurus tetrax, Pavo cristatus, Anser fabalis, Anser albifrons, Anser brachyrhynchus, Branta sp., Melanitta sp., Mergus sp., Somateria sp., Larus sp., Sterna sp., Athene noctua, Columba oenas, Columba palumbus, Corvus monedula,

Aspius aspius, Stizostedion lucioperca, Anquila, Salmo salar, Salmo trutta f. fario, Platichthys flesus
- but we would be most grateful for any (and any other) reference material!

A List of books and articles which the library would like to replace follows:

Ucko, P.J., Dimbleby, G.W. (eds.) 1969 *The domestication and exploitation of plants and animals* Gerald Duckworth & Co. London

Prange D. Henry, Anderson F. John, Rahn Hermann 1979 Scaling of skeletal mass to body mass in birds and mammals, *The American Naturalist* 113 1

Slater, E.A., Tate, J.O.(eds.) 1987 *Science and Archeology, Glasgow 1987: proceedings of a conference on the application of scientific techniques to archaeology, Glasgow, September 1987*. British Archaeological Reports British Series 196

Grant, A. 1978 Variation in dental attrition in mammals and its relevance to age estimation. *Research problems in zooarchaeology*. Brothwell, D.R., Thomas, K.D., Clutton-Brock, J. (eds.)

Klein, R.G. 1982 Age (mortality) profiles as a means of distinguishing hunted species from scavenged ones in Stone Age archeological sites. *Paleobiology* 8 2

Klein, R.G., Cruz-Urbe, K. 1983 The computation of ungulate age (mortality) profiles from dental crown heights. *Paleobiology* 9 1

Clason, A., T., 1970 The animals bones of the bandkeramic and middle age settlements near Bylany in Bohemia *Palaeohistorica* 14

Chaplin, R.E., White, R. W. G. 1969 The use of tooth eruption and wear, body weight and antler characteristics in the age estimation of male wild and park fallow deer (*Dama dama*) *Journal of Zoology* 157 London

Wilson, B., Grigson, C. et Payne, S. (eds.), 1982 *Ageing and sexing animal bone from archaeological sites*. BAR. 109

Cunliffe, B.W. (ed.), 1975 *Excavation at Portchester castle. I - Roman*. Society of antiquaries. London

Heinrich, D. 1986 *Fishing And Consumption Of Gad (Gadus Morhua Linnaeus, 1758) In The Middle Ages, Fish and Archaeology: Studies in osteometry, taphonomy, seasonality and fishing methods* BAR International Series 294 ?

- Reitz, J.R. et Wing, E. 1999 *Zooarchaeology*, Cambridge manuals in archaeology Cambridge university press Cambridge
- Brothwell, D., Higgs, E., 1969 *Science in archaeology - survey of progress and research*. Thames and Hudson. London
- Bartosiewicz L. 1995 *Animals in the urban landscape in the wake of the Middle Ages: a case study from Vác, Hungary*. British Archeological Reports International Series 609
- Pike-Tay, A. 1991 *Red deer hunting and the Upper Paleolithic of south-west France: a study in seasonality* British Archeological Reports International Series 569
- Pike-Tay, A. 1995 Variability and synchrony of seasonal indicators in dental cementum microstructure of the Kaminuriak caribou population, *Archaeofauna* 4 273-84
- Heinrich, D. 1994 Some Remarks On The Term "Thanatoconosis" Especially "Anthropogenic Thanatocoenosis", With Particular Reference To Fish Remains *Archaeofauna* 3 93-97
- Heinrich, D. 1983 *Temporal changes in fishery and fish consumption between early Medieval Haithabu and its successor, Schleswig Animals and Archaeology. 2. Shell Middens, Fishes and Birds* BAR International Series 183 151-156
- Bartosiewicz L. 1984 *Reconstruction of prehistoric cattle represented by astragali in a bronze age "Sacrificial Pit" Animals and Archaeology. 4: Husbandry in Europe*
- Baker, J., Brothwell, D. 1980 *Animal disease in Archaeology* Academic Press London
- Binford, L.R. 1978 *Nunamiut ethnoarchaeology* Academic Press, New York
- Balkwell, D.McC., Cumbaa, S.L. 1992 *A guide to the identification of postcranial bones of Bos taurus and Bison bison*. 71 Canadian Museum of Nature Syllogeus
- Davis M. J. Simon 1987 *The archaeology of animals* London
- Brentjes B. 1965 *Die Haustierwerdung im Orient*. A. Ziemsen Verlag, Wittenberg
- Bökönyi, S. 1974 *History of domestic mammals in central and eastern Europe*. Budapest.
- Clutton-Brock, J. 1999 *A natural history of domesticated mammals*, Cambridge university press

Contact details: sue.cole@english-heritage.org.uk 0207 973 3662
floods2002@bl.uk 0207 412 7048

Books and material should be sent to:
 Sue Cole, English Heritage, Room 530, 23 Savile Row, LONDON W1S 2ET

INTERNATIONAL JOURNAL OF OSTEOARCHAEOLOGY - SPECIAL AEA MEMBER RATE

During 2003, the International Journal of Osteoarchaeology is available to AEA members at the special annual subscription price of £90.00/\$145.00. Take advantage of this offer and receive six issues packed with original peer-reviewed articles on human and animal bone research from all over the world.

A double special issue on "Bone Chemistry and Human Behaviour", with key papers from the Advanced Seminar on Paleodiet held at the University of California, sees the 2003 volume of the journal off to an exciting start.

Find out more by visiting: www.interscience.wiley.com/journal/oa
 To take advantage of this special rate, please contact cs-journals@wiley.co.uk, and mention your AEA membership number.

THE ARCHAEOLOGY OF FOOD – MA/DIP. NEW!

SCHOOL OF ARCHAEOLOGY & ANCIENT HISTORY, UNIVERSITY OF LEICESTER, UK

Course content

Food is both a biological and a social need for all human societies. This new MA provides a unique and exciting programme of study for understanding the archaeology of food. It aims to produce graduates who appreciate the need for an integrated and interdisciplinary approach to the study of food, and who have the necessary skills to carry out such study. It combines existing archaeological approaches to the study of food remains (archaeobotany and archaeozoology) with anthropological and social approaches, by studying food as material culture. The focus is on both consumption and production, using case studies from around the world. In short, the course concerns the meeting of biology and culture.

Course modules

Food as Material Culture	Archaeobotany
--------------------------	---------------

Food in Past Societies
Environmental Archaeology
Dissertation (for MA students)

Archaeozoology
one option course
Skills in Information Technology

Teaching and assessment

Teaching is by a combination of lectures, seminars, practicals (laboratory work), and individual research. Students are encouraged to develop their presentation and communication skills through oral presentations and practical reports. Assessment of taught modules is through essays and project work (including group work). MA students write a 15,000-word dissertation.

Entry requirements

Normally a good upper second class Honours degree in Archaeology, Ancient History or a cognate subject (Anthropology, History, Geography or Biological Sciences) or the equivalent for non-UK applicants. Candidates without formal training in Archaeology are welcomed, but may be required to take all or part of the Certificate in Archaeology by Distance Learning and they are recommended to contact the course director at the earliest opportunity. Applicants with a lower second-class degree may be considered subject to the quality of their undergraduate dissertation and satisfactory references. Applicants whose first language is not English will be required to demonstrate proficiency in English.

Duration and mode of study (starting date September 2003)

One year full-time or two years part-time. Candidates interested in PhD research in the subject area are also encouraged to contact the course director.

Contacts and further information

Dr Marijke van der Veen
Course Director
Tel.: +44 (0)116 252 2611/2615
Fax: +44 (0)116 252 5005
e-mail: mvdv1@le.ac.uk or

School of Archaeology & Ancient History
University of Leicester
University Road, Leicester LE1 7RH, UK
Pam Thornett, the School Secretary
e-mail: pt9@le.ac.uk
<http://www.le.ac.uk/archaeology/>

PUBLICATIONS

Due to pressures of work, James Greig's Bibliography will be carried forward to the May Newsletter. We are grateful to Simon Davis for the following information:

Davis, S.J.M. and Connell, B. 2001 The animal bones. In: Biddle, M.; Hiller, J.; Scott, I. and Streeten, A. Henry VIII's coastal artillery fort at Camber Castle, Rye, East Sussex: An archaeological, structural and historical investigation. pp. 301-332. Oxford, Oxford Archaeological Unit and English Heritage.

Davis, S.J.M. 2001 Blood, bones and ladies' tights, or the things we do in our laboratory New York, Rubber Band Society Gazette Davis, S.J.M. 2002. The mammals and birds from the Gruta do Caldeirão, Portugal. *Revista Portuguesa de Arqueologia* 5, 29-98

www.ipa.min-cultura.pt/publicacoes/revista/v5/v5n2

The last is also available as a 'pdf' at the above WWW address free of charge.

Many thanks also to Edith Schmidt for details of the following two publications:

Schmidt, E. 1998 Der Kornäfer *Sitophilous granarius* Schoen. Cucurilionidae aus der Schuttschicht des bankeramischen Brunnens von Erelenz-Kückhoven. Ous: Rhein. Amt für Bodendenkmalpflege (Hg.) (1088: Brunnen der Jungsteinzeit. Internat. Symposium Erkelenz 27-20 Okt. 1997, Materialien zur Bodendenkmalpflege Bd. 11: 261-269. Rheinland-verlag, Köln.

Schmidt, E. 1998 Wirbellosenreste aus dem jungsteinzeitlichen Siedlungsplatz Reute-Schorrenried (Stadt Bad Waldsee, Krs. Ravensburg). – In: Martin Mainberger: Das Moordorf von Reute (Staufen 1998) S. 419-.

APPENDIX I - FLOODS IN PRAGUE REQUEST FOR HELP

Pollen slides wanted:

Species	Family
<i>Antennaria dioica</i> (L.) Gaertn.	Asteraceae
<i>Arnica montana</i> L.	Asteraceae
<i>Aster amellus</i> L.	Asteraceae
<i>Calcitrapa solstitialis</i> (L.) Lam.	Asteraceae
<i>Cynara scolymus</i> L.	Asteraceae
<i>Doronicum austriacum</i> Jacq.	Asteraceae
<i>Filago minima</i> (Smith) Pers.	Asteraceae
<i>Ligularia sibirica</i> (L.) Cass.	Asteraceae
<i>Aster punctatus</i> W et. K.	Asteraceae
<i>Sternbergia colchiciflora</i> Waldst. et Kit.	Amaryllidaceae
<i>Cotinus coggygria</i> Scop.	Anacardiaceae
<i>Cicuta virosa</i> L.	Apiaceae
<i>Cnidium dubium</i> (Schkuhr) Thell.	Apiaceae
<i>Cnidium silaifolium</i> (Jacq.) Simk.	Apiaceae
<i>Coriandrum sativum</i> L.	Apiaceae
<i>Haquetia epipactis</i> (Scop.) DC.	Apiaceae
<i>Laserpitium archangelica</i> Wulfen	Apiaceae
<i>Pleurospermum austriacum</i> (L.) Hoffm.	Apiaceae
<i>Smyrnium perfoliatum</i> L.	Apiaceae
<i>Trinia glauca</i> (L.) Dumort.	Apiaceae
<i>Turgenia latifolia</i> (L.) Hoffm.	Apiaceae
<i>Ruscus hypoglossum</i> L.	Asparagaceae
<i>Ceterach officinarum</i> Willd.	Aspleniaceae
<i>Athyrium filix-femina</i> (L.) Roth	Athyriaceae
<i>Matteucia struthiopteris</i> (L.) Tod.	Athyriaceae
<i>Woodsia ilvensis</i> (L.) R. Br.	Athyriaceae
<i>Alnus viridis</i> (Chaix) DC. in Lam et. DC.	Betulaceae
<i>Nasturtium officinale</i> R. Br.	Brassicaceae
<i>Draba muralis</i> L.	Brassicaceae
<i>Cercis siliquastrum</i> L.	Caesalpiniaceae
<i>Sedum album</i> L.	Crassulaceae
<i>Sedum reflexum</i> L.	Crassulaceae
<i>Cryptogramma crista</i> (L.) Hooker	Cryptogrammaceae
<i>Cucumis melo</i> L.	Cucurbitaceae
<i>Ecbalium elaterium</i> (L.) A. Richard	Cucurbitaceae
<i>Cuscuta lupuliformis</i> Krocker	Cuscutaceae
<i>Elatine alsinistrum</i> L.	Elatinaceae
<i>Astragalus arenarius</i> L.	Fabaceae
<i>Astragalus asper</i> Wulfen	Fabaceae
<i>Chamaecytisus albus</i> (Hacq.) Rothm.	Fabaceae
<i>Cicer arietinum</i> L.	Fabaceae
<i>Coronilla emerus</i> L.	Fabaceae
<i>Corothamnus procumbens</i> (W. et K.) C. Presl	Fabaceae
<i>Hedysarum hedysaroides</i> (L.) Sch. et Thell.	Fabaceae
<i>Ononis arvensis</i> L.	Fabaceae
<i>Ornithopus perpusillus</i> L.	Fabaceae
<i>Vicia angustifolia</i> L.	Fabaceae
<i>Vicia lathyroides</i> L.	Fabaceae
<i>Vicia sylvatica</i> L.	Fabaceae
<i>Lathyrus aphaca</i> L.	Fabaceae
<i>Lathyrus nissolia</i> L.	Fabaceae
<i>Medicago arabica</i> (L.) Hudson	Fabaceae
<i>Onobrychis arenaria</i> (Kit.) Ser.	Fabaceae
<i>Vicia ervilia</i> (L.) Willd.	Fabaceae
<i>Vicia articulata</i> Hornem.	Fabaceae
<i>Vicia striata</i> M. Bieb.	Fabaceae
<i>Vicia onobrychoides</i> L.	Fabaceae
<i>Vicia lathyroides</i> L.	Fabaceae
<i>Vicia sativa</i> L.	Fabaceae
<i>Vicia sylvatica</i> L.	Fabaceae
<i>Cimicifuga europaea</i> Schipczinskij	Ranunculaceae
<i>Pteridium aquilinum</i> (L.) Kuhn	Hipolepidaceae
<i>Hymenophyllum tunbrigense</i> (L.) Sm.	Hymenophyllaceae
<i>Corrigiola litoralis</i> L.	Illecebraceae
<i>Crocus sativus</i> L.	Iridaceae
<i>Iris sibirica</i> L.	Iridaceae
<i>Isoetes echinospora</i> Durieu	Isoëtaceae
<i>Isoetes lacustris</i> L.	Isoëtaceae
<i>Chaeturus marrubiastrum</i> (L.) Rchb.	Lamiaceae
<i>Clinopodium vulgare</i> L.	Lamiaceae
<i>Galeopsis ladanum</i> L.	Lamiaceae
<i>Sideritis montana</i> L.	Lamiaceae
<i>Lavandula angustifolia</i> Mill.	Lamiaceae
<i>Majorana hortensis</i> Moench	Lamiaceae
<i>Pulegium vulgare</i> Mill.	Lamiaceae
<i>Teucrium scordium</i> L.	Lamiaceae
<i>Thymus vulgaris</i> L.	Lamiaceae
<i>Lemna gibba</i> L.	Lemnaceae
<i>Erythronium dens-canis</i> L.	Liliaceae
<i>Hyacinthus orientalis</i> L.	Liliaceae
<i>Streptopus amplexifolius</i> (L.) DC. in Lam. et DC.	Liliaceae
<i>Radiola linoides</i> Roth	Linaceae
<i>Diphasiastrum complanatum</i> (L.) Holub	Lycopodiaceae
<i>Lycopodiella inundata</i> (L.) Holub	Lycopodiaceae
<i>Amelanchier ovalis</i> Med.	Rosaceae
<i>Cydonia oblonga</i> Mill.	Rosaceae
<i>Malus sylvestris</i> Mill.	Rosaceae
<i>Lavatera thuringiaca</i> L.	Malvaceae
<i>Malope trifida</i> Cav.	Malvaceae
<i>Pilularia globulifera</i> L.	Marsileaceae
<i>Monotropa hypopitys</i> L.	Monotropaceae
<i>Najas minor</i> All.	Najadales
<i>Ludwigia palustris</i> (L.) Elliot	Onagraceae
<i>Cypripedium calceolus</i> L.	Orchidaceae
<i>Chamorchis alpina</i> (L.) L. C. Richard	Orchidaceae
<i>Coeloglossum viride</i> (L.) C. J. Hartman	Orchidaceae
<i>Corallorhiza trifida</i> Chatel	Orchidaceae
<i>Goodyera repens</i> (L.) R. Br.	Orchidaceae
<i>Hermidium monorchis</i> (L.) R. Brown in W. et W. T. Aiton	Orchidaceae
<i>Malaxis monophyllos</i> (L.) O. Swartz	Orchidaceae
<i>Spiranthes spiralis</i> (L.) Chevall.	Orchidaceae
<i>Orobanche lutea</i> Baumg.	Orobanchaceae
<i>Oribanche ramosa</i> L.	Orobanchaceae
<i>Paeonia officinalis</i> L.	Paeoniaceae
<i>Glaucium flavum</i> Crantz	Papaveraceae
<i>Androsace elongata</i> L.	Primulaceae
<i>Androsace maxima</i> L.	Primulaceae
<i>Centunculus minimus</i> L.	Primulaceae
<i>Glaux maritima</i> L.	Primulaceae
<i>Primula farinosa</i> L.	Primulaceae
<i>Chimaphila umbellata</i> (L.) W. P. C. Barton	Pyrolaceae
<i>Pyrola rotundifolia</i> L.	Pyrolaceae
<i>Anemone narcissiflora</i> L.	Ranunculaceae
<i>Alchemilla glaucescens</i> Wallr.	Rosaceae
<i>Saxifraga hirsuta</i> L.	Saxifragaceae
<i>Saxifraga paniculata</i> Mill.	Saxifragaceae
<i>Saxifraga rosacea</i> Moench	Saxifragaceae
<i>Antirrhinum majus</i> L.	Scrophulariaceae
<i>Antirrhinum majus</i> L.	Scrophulariaceae
<i>Limosella aquatica</i> L.	Scrophulariaceae
<i>Lindernia procumbens</i> (Krocker) Borbás	Scrophulariaceae
<i>Lastrea limbosperma</i> (All.) Heywood	Thelypteridaceae
<i>Thymelaea passerina</i> (L.) Coss. et Germ.	Thymelaeaceae
<i>Celtis australis</i> L.	Ulmaceae
<i>Valerianella dentata</i> (L.) Pollich	Valerianaceae
<i>Zannichellia palustris</i> L.	Zannichelliaceae
<i>Tribulus terrestris</i> L.	Zygophyllaceae

**Worlds apart?
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